



Frequently Asked Questions

RFP 2025-120 High-Definition Camera and DVR System for Transit Vehicles

Date: October 22, 2024

Thank you, these questions have been received and forwarded to the team for response.

Question 1: The documents listed on the Mountain Line website as Standard Documents, are these the contract documents referenced in paragraph 3.01 of the RFP and do they apply to this RFP?

Answer: Correct.

Question 2: Can you confirm that the DBE documents listed on the Mountain Line purchasing page also applies to RFP 2025-120?

Answer: Confirmed.

Question 3: Is there an expected or required timeline for pilot and/or fleet installation to take place?

Answer: The timeline for the pilot phase is 2 months. The timeline for fleet installation will be determined after the pilot is complete, with final decisions possibly taking up to two months following the pilot's conclusion.

Question 4: Will the authority accept an exterior camera without a heating element if it is rated and proven in all weather environments - i.e. rated for temperatures -40°F to +158°F (-40°C to +70°C) and widely installed and used in snowy and icy conditions?

Answer: Yes, The vendor may propose exterior cameras without a heating element, provided they are rated for extreme weather conditions and have proven reliability in snowy and icy environments.

Question 5: Is there a camera count required?

Answer: The proposal may include fewer cameras, as long as all required views and image quality are maintained.

Question 6: Can coverage goals be defined for all vehicles i.e. specific interior and exterior views; for the one to six cameras on support vehicles?

Answer: Please refer to the attached *RFP 2024-120, High-Definition Camera and DVR System for Transit Vehicles FAQ, Attachment A* document for details





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Question 7: Can you confirm the intended use for support vehicles to determine coverage requirements?

Answer: The intended use of cameras in support vehicles is to document accidents and incidents for record-keeping purposes.

Question 8: Any preference for AHD/IP?

Answer: Yes, IP

Question 9: Is there a DBE goal for this contract?

Answer: No.

Question 10: Can you share a list of existing equipment and can it be reused?

Answer: All revenue vehicles, including buses and vans, are equipped with CradlePoint devices that will be reused. Additionally, most vehicles have a driver screen that may be reused if compatible with the new system. Each vehicle also includes one front-facing IP camera its cabling maybe reused, provided the cable is tested and confirmed to be in good working condition before final installation.

Question 11: Are there existing routers on vehicles they wish to reuse?

Answer: Yes, reuse the existing routers CradlePoint R1900 and R900

Question 12: Can we get the operating hours for calculating 4 weeks storage?

Answer: 18hr a day.

Question 13: Is it acceptable to cut and tuck existing cables or would they like them removed completely?

Answer: Mountain Line's preference is to completely remove any unused cables. Cutting and tucking cables may be done only in specific cases where necessary, but this approach should be the exception rather than the standard.

Question 14: Is the work to be completed at the Mountain Line facility?

Answer: Yes

Question 15: Are there any standards for off-the-shelf equipment?

Answer: While there are no specific standards, Mountain Line prefers an off-the-shelf solution, ideally one that is future-proofed for long-term usability and compatibility.

Question 16: Is there a desire for off-the-shelf compatibility with other manufacturers?

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- Answer: Yes, Mountain Line prefers an off-the-shelf solution, ideally one that is future-proofed for long-term usability and compatibility.
- Question 17: Can we get specific make/model and layout information?
- Answer: Please refer to the attached *RFP 2024-120, High-Definition Camera and DVR System for Transit Vehicles FAQ, Attachment A* document for details
- Question 18: 30-min recording after key off - is this full power off to the vehicle?
- Answer: Yes, recording is required for 30 minutes after the vehicle's power is turned off. A constant power source is already wired to the recording device location, bypassing the knife switch to ensure uninterrupted recording during this period.
- Question 19: Any network speed or bandwidth requirements?
- Answer: No. Network connectivity (WiFi and cellular) to be provided by onboard Cradlepoint routers.
- Question 20: Any FPS requirements?
- Answer: 30FPS or greater
- Question 21: Optional features: are these current or desired for future, and do they apply to service as well as revenue?
- Answer: The optional features are for potential inclusion in this RFP, depending on cost considerations. These features are optional and may be evaluated for both service and revenue vehicles as appropriate.
- Question 22: Can the due date be extended based on limited timing between question responses and submission deadline?
- Answer: Yes, the due date has been extended to November 1, 2024. See Addendum #1 to the RFP.
- Question 23: Can the page limit be extended beyond 18?
- Answer: Yes, the page limit is extended to 25 pages. See Addendum #1 to the RFP.
- Question 24: Does the Motorola radio have an analog audio output ?
- Answer: Yes, Motorola model number AAM28TRN9RA1AN
- Question 25: Is the output level variable or fixed ? If fixed what is the voltage ?
- Answer: Fixed at 24v





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Question 26: Can the page count be expanded to 75 pages if a summary and table of contents with page numbers are provided? While the intent to reduce the reading for those reviewing bids is well understood, it can be nearly impossible to fully document and provide supporting information, including drawings and schematics, in an easily readable format within 25 pages.

Answer: We will not expand the page count to 75 pages, as it has already been increased to 25 pages. However, cut sheets may be provided as a separate attachment and will not count toward the total page count, as long as all required information outlined in the scope of work is addressed within the 25 pages.

Question 27: Can Mountain Line provide more details on the listed vehicles? For example, information such as length, location of lift and lift doors (if applicable), passenger layout, floorplans, and which vehicles are service vehicles would be helpful.

Answer: Please refer to the attached *RFP 2024-120, High-Definition Camera and DVR System for Transit Vehicles FAQ, Attachment A* document for details

Question 28: For vehicle types that do not have a rear door, does Mountain Line still require operator displays, or just a rear view on the displays?

Answer: Service vehicles do not require a rear door view or a driver screen, although this could be an optional feature for backup camera. Cutaway vans, do not require a rear door view but, will need a driver display specifically for backing up.

Question 29: Can Mountain Line provide a listing of all vehicles with a rear door?

Answer: Please refer to the attached *RFP 2024-120, High-Definition Camera and DVR System for Transit Vehicles FAQ, Attachment A* document for details

Question 30: During the pre-submittal meeting, it was mentioned that some vehicles currently have backup cameras and displays from the vehicle OEM. Can Mountain Line provide a list of vehicles that do and do not require a digital display to be included?

Answer: Please refer to the attached *RFP 2024-120, High-Definition Camera and DVR System for Transit Vehicles FAQ, Attachment A* document for details

Question 31: Does Mountain Line have minimum requirements for frames per second (FPS) and bit rate, as both are equally important to video quality?

Answer: 30FPS or greater. No minimum requirement for bitrate; we would look to vendor to propose a bitrate based on their solution, particular encoding used, etc.

Question 32: Does Mountain Line have requirements for exterior views?

Answer: The proposal may include fewer cameras, as long as all required views and image quality are maintained.

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Question 33: Can Mountain Line specify which of the listed vehicles are support vehicles?

Answer: Please refer to the attached *RFP 2024-120, High-Definition Camera and DVR System for Transit Vehicles FAQ, Attachment A* document for details

Question 34: Are the interior and exterior coverage requirements in support vehicles different from the rest of the fleet?

Answer: Yes, the coverage requirements for support vehicles differ from those of the rest of the fleet due to limited space for fitting recording equipment in standard support vehicles. However, if your solution can overcome these limitations, Mountain Line would prefer to standardize coverage across all vehicle types.

Question 35: Does live view apply to all vehicles, and if not, can Mountain Line provide a list of vehicles this specification will apply to?

Answer: Please refer to the attached *RFP 2024-120, High-Definition Camera and DVR System for Transit Vehicles FAQ, Attachment A* document for details

Question 36: Does Mountain Line have onboard routers it would like respondents to utilize, or should respondents include the necessary hardware in their proposal? If so, can you provide the details of these existing routers? If so, do all routers have an open port that can be utilized by the camera system, and do all vehicles required to meet this specification have these routers?

Answer: Yes, all Revenue vehicles have an onboard routers CradlePoint R1900 for buses, R900 for Vans. Yes, all routers have an open port that can be utilized by the camera.

Question 37: Can Mountain Line clarify what is meant by remote downloading? Is the intention of this requirement to specify that proposed systems be capable of downloading footage over cellular networks, Wi-Fi networks, or both?

Answer: Downloading over WiFi would be required, but the ability to download specific individual clips on demand in the field over cellular would be a preference. (For example: if law enforcement asks for a video clip from our cameras at the scene of an accident, Mountain Line would like to provide it on the spot.)

Question 38: Does Mountain Line have benchmarks for download speeds and recorder throughput that it would like a proposed system to meet to ensure downloads can complete within the 30-minute shutdown timer? For instance, a 30-minute clip from a 10-camera system set at 1080P, 30FPS, with a bit rate high enough for quality video, would be approximately 15GB. This would require real-world download speeds of at least 100 Mbps to complete the download before the recorder shuts off.

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Answer: No

Question 39: Is it intended that only Solid-State Drives (SSDs) and SD Cards are acceptable?

Answer: Yes

Question 40: Can Mountain Line provide the minimum storage requirements in hours instead of weeks? Additionally, can Mountain Line break this down by vehicle type? The number of hours per day and days per week a vehicle is operated can significantly affect this number.

Answer: 504 hr.

Question 41: In addition to 1080p resolution does Mountain Line have minimum requirements for frames per second (FPS) and bit rate of each cameras, as both will have a dramatic impact on storage needs?

Answer: 30FPS or greater. No minimum requirement for bitrate; we would look to vendor to propose a bitrate based on their solution, particular encoding used, etc.

Question 42: Section V Telemetry & Sensors –

- Speed, Indicators, Brakes, Telemetry: Integration with vehicle telemetry.
- Collision/Hard Braking Sensor: Include a sensor for collision or hard braking events.
- Door Switch Telemetry: Integration with door switch telemetry.

Do these requirements also apply to support vehicles?

Answer: These requirements do not apply to support vehicles. However, if your solution can bridge this gap and allow for standardization across the fleet, Mountain Line would prefer to include these features in support vehicles as well.

Question 43: Does Mountain Line have any specific security protocols that it would like proposed systems to meet, such as Multi Factor Authentication?

Answer: Microsoft Entra compatible Single Sign On (SSO) authentication is a strong preference. If SSO is not supported, then Multi-Factor Authentication (MFA) would be required.

Question 44: Is there a preference for number of interior vs exterior cameras, or a layout that Mountain Line would prefer to see?

Answer: The proposal may include fewer cameras, as long as all required views and image quality are maintained.

Question 45: Does Mountain Line prefer any particular open architecture standards such as Onvif?

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Answer: Mountain Line does not have a specific preference for any open architecture standards. However, we prioritize the use of open architecture to ensure future-proofing and seamless integration with other equipment.

Question 46: Is there any particular components or data that Mountain line would like the proposed camera system to integrate with?

Answer: Mountain Line would like the option of viewing the live stream from a bus in our CAD/AVL solution, which is provided by GMV. This would require an RTSP compliant stream.

Question 47: Can Mountain Line expand on the preference for Motorola radios to provide more clarity?

Answer: Mountain Line uses t Motorola model number AAM28TRN9RA1AN. We aim to achieve audio clarity by integrating the operator's voice and radio communication with our camera systems. While integration of audio from the Motorola radio into the camera system is preferred, it is not a mandatory requirement.

Question 48: Would Mountain Line like optional features included in the price of the proposed camera system or broken out separately?

Answer: broken out separately

Question 49: Would the supporting information about optional features and preferred options be counted as part of the 18-page count maximum?

Answer: Yes, the supporting information about optional features and preferred options will be excluded from the page count. See Addendum #2 to the RFP.

Question 50: If a respondent has a system that will meet minimum specification and another option that will meet most if not all options but at a higher cost, can they submit more than one proposal?

Answer: Yes, you may submit more than one proposal.

Question 51: Can Mountain Line provide a copy of the recording from the pre-submittal meeting?

Answer: Yes, this will be posted to the Mountain Line website.

Question 52: Can Mountain Line please provide a vehicle list that includes the vehicle make and model, number of cameras installed, and number of doors on the vehicle?

Answer: Please refer to the attached *RFP 2024-120, High-Definition Camera and DVR System for Transit Vehicles FAQ, Attachment A* document for details

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Question 53: On page 16, in the “Preferred Options” section of RFP No. 2025-120, Mountain Line states that they would like “GMV Integration: Integration with GMV (General Mobility Vehicles).” Can Mountain Line please detail what vehicles are considered “general mobility vehicles” and detail the expectation for this integration?

Answer: Mountain Line would like the option of viewing the live stream from a bus in our CAD/AVL solution, which is provided by [GMV](#). This would require an RTSP compliant stream.

Question 54: On page 16, in the “Preferred Options” section of RFP No. 2025-120, Mountain Line states that they would like “Radio Traffic Recording: Provide ability to record radio traffic. Mountain Line Currently uses Motorola radios.” Can Mountain Line detail how they prefer to have this audio recorded (ie: audio recorded via cameras installed near the driver)?

Answer: Mountain Line uses t Motorola model number AAM28TRN9RA1AN. We aim to achieve audio clarity by integrating the operator's voice and radio communication with our camera systems. While integration of audio from the Motorola radio into the camera system is preferred, it is not a mandatory requirement.

Question 55: Would Mountain Line like the system to show passengers on the bus a live video feed of the onboard cameras?

Answer: Yes

Question 56: Would Mountain Transit extend the page limitation to 30 pages?

Answer: We will not expand the page count to 30 pages, as it has already been increased to 25 pages. However, cut sheets may be provided as a separate attachment and will not count toward the total page count, as long as all required information outlined in the scope of work is addressed within the 25 pages.

Question 57: Section IV lists Mountain Line’s fleet – are all vehicles included in this bid? Can Mountain Line confirm which vehicles require external cameras? Can Mountain Line confirm which vehicles require a backup camera and operator display?

Answer: Please refer to the attached *RFP 2024-120, High-Definition Camera and DVR System for Transit Vehicles FAQ, Attachment A* document for details

Question 58: What is the expected award date?

Answer: Award is anticipated in the last week of November or the first week of December; however, this is not a guarantee.

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Question 59: Is Attachment 5 – Firm and Key Personnel License/Registrations only included if AZ licenses are involved? If there are None, do we still include it in the bid?

Answer: All Attachments must be submitted with the bid in order to be considered responsive; any criteria that do not apply should be marked N/A.

Question 60: Past Performance Survey, does Mountain Transit want us to submit this to our current customers for this bid? How many completed surveys are required?

Answer: Per the RFP, Section VII, Evaluation, a minimum of three Past Performance Surveys should be submitted. These should be sent to past or current customers for completion and submission to purchasing@mountainline.az.gov.

Question 61: Will all questions and responses be emailed or posted on a website? If a website, what is the address?

Answer: Per the RFP, Page 2, Answers to questions and other clarifications will be in the final Addenda issued through Mountain Line Website, as well as in Instruction 6, Errors, Inquiries, and Addenda, 6.04 Answers to the written questions or requests for clarification or modification of the RFP submitted by Respondents, as well as any other changes to the RFP, will be provided in a timely manner in the form of FAQ or Addenda via Mountain Line Procurement website: <https://mountainline.az.gov/services-programs/purchasing/>.

Question 62: Can the authority provide the expected weekdays and times, and daily number of vehicles available in order to estimate resources required for installation?

Answer: We operate seven days a week. Installations may occur from 7:00 AM to 10:00 PM, Monday through Friday, and from 8:00 AM to 8:00 PM on Saturday and Sunday. During weekdays, up to three buses may be available for installation, while on weekends, more buses may be accessible.

Question 63: The RFP lists a DBE goal of 1% and a DBE goal of 3%. What is the DBE goal?

Answer: There is no DBE goal on the contract.

Question 64: The RFP number referenced in the Required Clauses and Certification is 2024-120. The RFP number shown on the RFP document is 2025-120. Our assumption is the correct RFP No is 2025-120. Can you confirm?

Answer: Confirmed.

Question 65: For each vehicle listed in Mountain Line's Fleet, can you provide the number and type of cameras (Forward Facing, Rearview, Exterior Curd/Street Side, etc) required?

Answered: Please refer to the attached *RFP 2024-120, High-Definition Camera and DVR System for Transit Vehicles FAQ, Attachment A* document for details

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Question 66: Is a digital driver display required for revenue cutaway vans, Ford F-350 vehicles, Ford F-450 vehicle, Toyota Siennas, and non-revenue cutaway vans?

Answer: A digital display is required for revenue cutaway vans and non-revenue cutaway vans for the backup camera. However, there is no requirement for a digital driver display for Ford F-350, Ford F-450, or Toyota Sienna vehicles.

Question 67: Can you describe your support vehicle and what type camera (Forward facing, interior, exterior, rearview) camera is required? In addition, will a digital driver display be required for your support vehicles?

Answer: Please refer to the attached *RFP 2024-120, High-Definition Camera and DVR System for Transit Vehicles FAQ, Attachment A* document for details

Question 68: Will the authority require hosting or on-premise deployment of application software and storage?

Answer: A hosted, cloud-based solution is preferred.

Question 69: Please define specific federal requirements DVR and Cameras must comply with?

Answer: These requirements are detailed in the RFP.

Question 70: Please specify what cybersecurity requirements the vendors Mobile Video System solution must meet?

Answer: Vendors should state whether their systems encrypt data/video at rest and/or in transit.
If SSO is not supported, Multi-Factor Authentication is required for user accounts.
Vendor should list what cybersecurity framework(s) they use—ex: ISO 27001, NIST SP 800-171, etc.
Vendors should list any cybersecurity audits or accreditations, such as SOC 2.

Question 75: Who bears the cost of the pilot, Authority or vendor?

Answer: The Authority will bear the cost of the pilot, provided it is included in the total deployment cost.

Question 76: Is the authority asking vendor to include in offer 5 years of parts and labor warranty or only labor?

Answer: Parts only.

Question 77: How many years of extended warranty would the authority like the vendor to quote?

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Answer: Five years of extended warranty.

Question 78: Will the authority also require system maintenance training?

Answer: Yes

Question 79: Capability for instant remote downloading while vehicle is in the field. Does "in the field" mean when vehicle is in the authorities service yard/maintenance facility or on-route or otherwise not in the service yard?

Answer: In the field" refers to the vehicle being on-route or otherwise not in the service yard.

Question 80: Capability for up to six cameras in support vehicles. In the Camera section of the Scope of Services, it mentions at least 1 camera. Can the authority list their support vehicles and number/type camera required for each vehicle type?

Answer: Please refer to the attached *RFP 2024-120, High-Definition Camera and DVR System for Transit Vehicles FAQ, Attachment A* document for details

Question 81: Can the authority provide a description of your GMV and specifically what integration will be required under this contract?

Answer: Mountain Line would like the option of viewing the live stream from a bus in our CAD/AVL solution, [GMV](#). This would require an RTSP compliant stream.

Question 82: In the referenced RFP document, we could not find any reference regarding a price proposal. Should the vendor submission include a price proposal? Does the authority have a template they would like the vendor to use?

Answer: Yes, a price proposal must be included in the submission with RFP Required Clauses and Certifications Attachment 21.

Question 83: Questions are due to the authority by 10/18. When can the vendor expect a response to submitted questions?

Answer: An FAQ will be posted to the Mountain Line website within one week of the due date.

Question 84: Is there a size restriction or size the authority is targeting for the digital displays?

Answer: Mountain Line currently uses a TFE LCD screen that measures 7 inches. The primary limitation for the screen size is that it must not obstruct the driver's view.

Question 85: Preferred Options - Telemetry and Sensors - Speed, Indicators, Brakes, Telemetry: Integration with vehicle telemetry. Are we using a third party AVL system to get this data or direct connection via OBD2?

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Answer: Preferred integration is directly with the vehicle; however, we may utilize other systems as needed. The direct connection for our vehicles is OBD2 and J1939

Question 86: Preferred Options - Telemetry and Sensors - Speed, Indicators, Brakes, Telemetry: Integration with vehicle telemetry. Are we using a third party AVL system to get this data or direct connection via OBD2?

Answer: Please refer to the attached RFP 2024-120, High-Definition Camera and DVR System for Transit Vehicles FAQ, Attachment A document for details

Question 87: Preferred Options - AI/ML Features: Incorporation of AI/ML features for enhanced functionality. Are there specific AI applications/features of interest to the authority?

Answer: We are interested in any AI applications that enhance safety within our system. This includes features such as accident avoidance, driver behavior monitoring, facial recognition, automatic people counting, lane detection, follow distance measurement, real-time alerts, and Advanced Driver Assistance Systems (ADAS).

Question 88: Preferred Options - User Licenses and SSO: Unlimited user licenses and single sign-on (SSO) capability. Any 3rd party SSO or Windows SSO? Please clarify.

Answer: Mountain Line uses Microsoft Entra Single Sign On (SSO). If SSO is not possible, then Multi-Factor Authentication would be required.

Question 89: Preferred Options - Radio Traffic Recording: Provide ability to record radio traffic. Mountain Line Currently uses Motorola radios. Need more detail about RTF. Does the authority looking for camera recorded audio or some sort of a direct integration with Motorola radios? Please clarify.

Answer: Mountain Line uses t Motorola model number AAM28TRN9RA1AN. We aim to achieve audio clarity by integrating the operator's voice and radio communication with our camera systems. While integration of audio from the Motorola radio into the camera system is preferred, it is not a mandatory requirement.

Question 90: Optional Features - Collision Avoidance: Integration of smart mirrors or other collision avoidance technologies. Can AI cameras be used to fulfill this requirement?

Answer: Yes

Question 91: Optional Features - People/Pedestrian Sensors: Incorporation of sensors to detect people and pedestrians. Can AI cameras be used to fulfill this requirement?

Answer: Yes

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Question 92: Does the Davis Bacon Act apply to this RFP?

Answer: No.

Question 93: Does the requirement for a bond apply to this RFP?

Answer: No.

Question 94: Does Buy America or Build America apply to this RFP?

Answer: No.

Question 95: Can the authority please provide some direction as to which documents given with this RFP will be applicable to the final proposal submission?

Answer: All documents included in RFP 2025-120, High-Definition Camera and DVR System for Transit Vehicles Required Clauses and Certifications must be completed and submitted with the proposal in order to be considered responsive. Items that do not apply should be marked N/A.

Question 96: Operator Display: Digital display for the operator that shows rear view and a view of rear door(s). Q. Are the requested views required to be shown simultaneously? Or would the agency accept views that can be cycled? Which vehicles does the agency require a digital display to be installed on?

Answer: The digital display may cycle between views, as the backup camera will only be needed when the vehicle is in reverse. This camera can remain focused on the rear doors until the vehicle is put in reverse. All revenue vehicles and non-revenue cutaway vans require a digital display. For cutaway vans the digital display is primarily for the backup camera, as they do not have a back door that needs monitoring

Question 97: Solid-State Storage: Must use solid-state or equivalent storage. Q. Is a ruggedized hard drive acceptable?

Answer: No

Question 98: Please provide additional details on expectations for AI/ML incorporation.

Answer: We are interested in any AI applications that enhance safety within our system. This includes features such as accident avoidance, driver behavior monitoring, facial recognition, automatic people counting, lane detection, follow distance measurement, real-time alerts, and Advanced Driver Assistance Systems (ADAS).

Question 99: Collision Avoidance: Integration of smart mirrors or other collision avoidance technologies. Q. Please describe this further.

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Answer: Enhance safety within our system. This includes features such as accident avoidance, lane detection, follow distance measurement, real-time alerts, and Advanced Driver Assistance Systems (ADAS).

Question 100: Is passenger Wi-Fi a feature that the agency is considering for the future?

Answer: No

Question 101: Does the agency have desired camera views on the vehicles?

Answer: Yes, Please refer to the attached *RFP 2024-120, High-Definition Camera and DVR System for Transit Vehicles FAQ, Attachment A* document for details

Question 102: Does the agency want software licenses for 5 years, similar to the hardware warranty requirement?

Answer: Yes

Question 103: For 2.01 on Pg. 8 of the RFP, which exact licenses are required for this specific project?

Answer: Any licenses that would be applicable to this project should be included.

Question 104: For Attachment #6 in Exhibit A, we need to have three references minimum complete this and submit with the bid, correct? Want to confirm this and the up to 5 examples of previous projects being asked for on Pg. 16 of the RFP document are required, correct?

Answer: Correct.

Question 105: Are you tax exempt?

Answer: No.

Question 106: For the vehicle types listed on Pg. 14, can you please specify the specific desired coverage areas for each vehicle type?

Answer: Please refer to the attached *RFP 2024-120, High-Definition Camera and DVR System for Transit Vehicles FAQ, Attachment A* document for details

Question 107: For the support vehicles, can you specify which vehicles listed on Pg. 14 would be considered support vehicles? Do these vehicles require just a front dashcam or should we propose more? Pg. 15 states one camera per support vehicle but Pg. 16 states it's preferred for up to 6 cameras per support vehicle.

Answer: The intended use of cameras in support vehicles is to document accidents and incidents for record-keeping purposes. Coverage requirements for support vehicles differ from those of the rest of the fleet due to limited space for fitting recording equipment in standard support vehicles. However, if your solution can

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address these limitations, Mountain Line would prefer to standardize coverage (more cameras) across all vehicle types.

Question 108: For the digital display on Pg. 15, does every vehicle require a digital display? Is the intent to capture the rear view of the vehicle and the rear door with a single exterior camera? Do you want it to constantly be showing the rear view or only when backing up and/or opening the rear doors?

Answer: For the digital display mentioned on Page 15, all revenue vehicles and non-revenue cutaway vans are required to have a digital display. The intent is to capture the rear view of the vehicle and the rear door using a single exterior camera. The backup camera will only activate when the vehicle is in reverse, displaying the rear view continuously until then. For cutaway vans, the digital display will primarily serve the backup camera function, as these vehicles lack a rear door that requires monitoring.

Question 109: For the live view/remote download on Pg. 15, vendor will need to propose a data plan with that as well, correct? Or do you have an existing data plan you want the utilize for the system to connect to?

Answer: Revenue vehicles have existing Cradlepoint routers with cellular data plans that can be utilized by the camera system.

Question 110: Do you have an existing cellular/wi-fi data connection on the vehicles? If so, how many vehicles currently have those?

Answer: All 30 fixed-route and 7 paratransit vehicles have Cradlepoint routers in them. The routers are configured to use WiFi as WAN when the vehicles are in the garage and cellular when in the field.

Question 111: For the wi-fi portion, is the intent to perform wi-fi upload with your home wi-fi network once the vehicles return to the garage(s)?

Answer: Yes

Question 112: For the optional features, do you desire a radar sensor kit to detect pedestrians along with the cameras?

Answer: For the optional features, we are interested in enhancing safety around our vehicles, specifically regarding pedestrian detection. We are open to utilizing a radar sensor kit or an integrated solution that works with the existing camera system. The goal is to improve safety measures, so please propose any systems that align with your technology.

Question 113: Please provide approximate target dates for any of the following:

- a. Notice of Intent to Award
- b. Board of Directors Approval Date
- c. Notice to Proceed (NTP) Date

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- d. Projected Dates for the Potential Pilot
- e. Projected Date for Full Installation of All Equipment

Answer: a. last week of November or first week of December
b. mid-December
c. mid-December
d. unknown at this time
e. unknown at this time

Question 114: Are operator displays (monitors) needed in every vehicle type?

Answer: Operator displays (monitors) are required in all revenue vehicles and non-revenue cutaway vans. Proposals for other vehicle types may be considered.

Question 115: What is the make and model number of the current cameras installed?

Answer: We currently use Seon/Safe Fleet camera and DVR system.

Question 117: Who is Mountain Line's existing vendor mentioned in the Preferred Options/Cloud Hosted section?

Answer: If Mountain Line is required to purchase and maintain an individual server, we will purchase a Dell server. If a virtual machine is an option, we use VMWare. If the server is more of an appliance (provided, supported, and maintained by the camera system vendor and Mountain Line is only responsible for connectivity) then other server brands would be acceptable.

Question 118: Infrastructure: Please confirm (or clarify) if Mountain Line is responsible for the back-end infrastructure (facility wireless access points, etc.).

Answer: Mountain Line is responsible for the wireless infrastructure.

Question 119: Please provide the specifications, including brand/model, of the existing access points to ensure proper integration.

Answer: Existing access points are Meraki brand. The primary bus storage shop, where most video would be downloaded, has seven MR46E access points. Smaller shops have MR36 access points, and we have one MR76 that covers an outdoor area between the smaller shops. Data sheets for each are available at the following links:

MR46E: <https://meraki.cisco.com/product/wi-fi/indoor-access-points/mr46e/>

MR36: <https://meraki.cisco.com/product/wi-fi/indoor-access-points/mr36/>

MR76: <https://meraki.cisco.com/product/wi-fi/indoor-access-points/mr76/>

Question 120: Connectivity: Please clarify the requirements pertaining to internal cellular or Wifi.

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- a. What frequency is being used for vehicle connectivity? (2.4GHz, 5GHz, AC Wave1, AC Wave2)

Answer: Fixed-route buses: Cradlepoint R1900 routers support WiFi 6--2.4 and 5 GHz. Paratransit vans: Cradlepoint IBR900 routers support WiFi 5, Wave 2--2.4 and 5 GHz.

Currently, all Cradlepoints are configured to only use 5 GHz for WiFi as WAN.

Meraki wireless access points support WiFi 6--2.4 and 5 GHz.

Cellular connectivity: the R1900 Cradlepoints in the fixed-route vehicles are 5G, and the IBR900 Cradlepoints in the paratransit vans are 4G. Provider is Verizon.

- b. Is there an on-board router currently on-board? If yes, please supply the make, model, and advise the quantity of available Ethernet ports for the new Recorder to connect to.

Answer: Fixed-route vehicles have [Cradlepoint R1900](#) routers. Paratransit vans have [Cradlepoint IBR900](#) routers. In both cases, the new camera system will use the Ethernet port that is occupied by our current camera system. Non-revenue vehicles do not have routers on-board.

Question 121: Do all vehicles return to the same facility to accommodate wireless download each day? Please provide the addresses of the facilities.

Answer: Yes, 3773 N Kaspar Dr., Flagstaff AZ 86004

Question 122: Is connectivity and power readily available to support wireless access points at this/these location(s)?

Answer: Meraki wireless access points are already installed and maintained by Mountain Line.

Question 123: Is the equipment to be disposed of, or turned over to Mountain Line?

Answer: Turned over to Mountain Line

Question 124: Where will installation take place and what is the window of availability (dates/times) the buses will be available for installation to occur? Please supply all relevant locations and the approximate number of buses for each location.

Answer: 3773 N Kaspar Dr., Flagstaff AZ 86004 We operate seven days a week. Installations may occur from 7:00 AM to 10:00 PM, Monday through Friday, and from 8:00 AM to 8:00 PM on Saturday and Sunday. During weekdays, up to three buses may be available for installation, while on weekends, more buses may be accessible.

Question 125: Are there secure locations at Mountain Line for storage of equipment after delivery and storage during installation?

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Answer: Yes

Question 126: Are there pallet loaders or forklifts available at the Mountain Line installation locations to aid in equipment delivery and storage?

Answer: Yes

Question 127: What are the environments at the Mountain Line installation locations, i.e., power, inside/outside, flat, gravel/blacktop, bathroom facilities, water stations?

Answer: The installation environment consists of a secure facility. As long as Buses can be moved at the end of each day, you will be in a shop with a flat concrete floor. The facility is equipped with bathroom facilities and water fountains

Question 128: The RFP states that the existing camera system must be removed from the vehicles. Could you provide details about the current system, including the technology used and the layout of the cameras?

Answer: Please refer to the attached *RFP 2024-120, High-Definition Camera and DVR System for Transit Vehicles FAQ, Attachment A* document for details

Question 129: Does the retrofit encompass all 47 vehicles listed in Section 4 of the RFP?

Answer: The retrofit will cover 40 of the vehicles listed in Section 4 of the RFP, with an additional eight vehicles requiring new installations.

Question 130: Which of the vehicles listed under section 4 are the service vehicles?

Answer: Please refer to the attached *RFP 2024-120, High-Definition Camera and DVR System for Transit Vehicles FAQ, Attachment A* document for details

Question 131: Are respondents allowed to determine the number and placement of cameras per vehicle based on their expertise and previous project experience?

Answer: Respondents are allowed to determine the number and placement of cameras per vehicle based on their expertise and previous project experience. The proposal may include fewer cameras, provided that all required views and image quality are maintained. If any cameras are relocated, the resulting holes must be properly covered to Mountain Line satisfaction.

Question 132: How many vehicles will the respondents have access to during installation?

Answer: Respondents will have access to up to three buses for installation from Monday through Friday, with additional access possible on Saturday and Sunday.

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Question 133: Can we have access to the past performance survey form?

Answer: The Past Performance Survey form is Attachment 6 to Exhibit A, Required Clauses and Certifications to the RFP.

Sincerely,

Heather Higgins
Purchasing and Contracts Officer, DBELO
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