



REQUEST FOR INFORMATION(RFI):0000438579
On-Board Vehicle Camera System
Reply Date 07/14/2023

This Request for Information is not a solicitation of actual bids, which may be solicited by means of a Request for Proposal (RFP) at a later date. The purpose of this RFI is to identify the most appropriate option (if any) to meet the current power needs of an electrified fleet of public transit and support vehicles.

NYCT is open to both newly developed and commercial off-the-shelf (COTS) systems. Proposers with On-Board Vehicle Camera systems which have been successfully implemented in other transit/transportation properties are encouraged to respond. As part of the RFI, NYCT intends to evaluate a solution that meets the following system considerations.

Background Information

New York City Transit, Paratransit Division is requesting information on a vehicle camera system for 1,188 vans in the Paratransit fleet. The camera system has two (2) purposes:

- To view post-accident and post-customer or driver incident video to evaluate events and circumstances surrounding an accident or incident should a complaint or legal claim be filed against the MTA.
- To address Paratransit operational issues in real time to enhance customer service and the customer experience.

All cameras shall have at minimum 1080P, IP69 rating, 4G capability with modem, antennae, and video storage. The camera system shall have six (6) cameras on each vehicle in the following locations:

1. Drive cam that views the road in front of the vehicle.
2. Driver cam that views the driver
3. Cabin cam the views the passenger compartment and wheelchair tie down area.
4. Step well cam that views front entrance and steps into the vehicle
5. External cam at rear of vehicles to view behind the vehicle. The existing back up cam can be used for dual purposes, rear view and back up cam.
6. A wheelchair lift cam to view boarding of passengers on the wheelchair lift.

The camera operating system shall include the following features and requirements:

- Real time viewing of all camera locations on the vehicle available to authorized staff via their computer or tablet.
- Cloud storage of all videos or event tagged video of up to one (1) year with archive capabilities without any additional hard drives, servers, or Wi-Fi.
- Monitoring of driver behavior, harsh braking, vehicle speed etc. The camera system must have GPS capabilities.
- The camera system must be fully customizable to the user so certain features of the system can be turned on or off from a dashboard.
- The system must be self-diagnostic with email notification should a fault or defect be detected.



- Verizon will be used for the cellular application of the system. A data management plan must be submitted for the annual cost of data usage. Should the system require additional data usage beyond the fixed annual cost the proposer must submit what the additional data will cost.
- The hardware used for the camera system must have at least a seven (7) year life cycle to coincide with the life cycle of each vehicle. Our costs should be limited to physical damage to the hardware. If maintenance of the system hardware is required, the proposer must submit the annual cost of the maintenance.
- Proposer must submit estimated installation cost of camera equipment and labor for each vehicle in the fleet.
- The camera system must utilize Genetec for video recording.
- The camera system shall have the capability to upload video to Genetec Clearance.
- The vendor shall provide comprehensive Visio drawings illustrating the necessary Systems, Network, Cameras, and cybersecurity technology in each vehicle to ensure secure data transmission from the vehicle to the cloud.
- The vendor shall provide drawings outlining the business process workflow for activities such as live video monitoring, video downloading, playback, and export.

Specific Instructions

When preparing your submission, please review and address in writing your approach to the above requirements. Include a description of your company, a brief overview of your system, and a list of properties (if any) with contact information that are presently utilizing the system being offered, and answer the following questions:

- What is the approach used to architect a system that includes all the services/specifications listed?
- Describe your company's deployment procedures.
- Describe your company's reactive management processes, including troubleshooting, communication, triage, etc.
- Describe your company's practices for maintaining and refreshing software
- Describe your company's approach when interacting with customers.
- Describe your company's approach when interacting with third party suppliers (carriers, hardware, maintenance, and support vendors).
- How many installations do you have in operation today? Does this include any transit/transportation properties?
- What feature(s) and/or functionality differentiate your product from your competitors?
- In addition, please provide recommendations on the latest technology which exceeds the minimum requirements listed in the RFI.
- In prior deployments, what is the failure rate? What are the maintenance requirements needed?
- Describe the range of metrics that MTA would be able measure while in operation.

Indicate a rough estimate for the providing this product. Please include what the estimate is based on and what is not part of the overall estimate.

- Alternative proposal estimate for recording data on an onboard DVR. Video data will be recorded onto the DVR and downloaded at the end of the day via Wi-Fi to a server located at the vehicle storage location.
- Provide an overview of the cyber security features included in the products and components.
- Describe your company's cybersecurity practices, highlighting measures taken to protect against



potential threats and ensure data integrity and privacy.

- Describe the ability for the proposed solution to adhere industry standard product lifecycle of operating systems and other baseline components (e.g. latest Microsoft Windows OS support) This applies to both onboard equipment and viewer application(s).
- Describe the ability for the systems to be federated as part of the MTA's Video Federation Enterprise
- Provide a detailed description of your company's proactive monitoring and management approach to ensure all devices are functioning normally.
- Describe how the proposed solution adheres to industry-standard product lifecycles for operating systems and baseline components (e.g., latest Microsoft Windows OS support) for both onboard equipment and viewer applications.
- Explain how the systems can be federated as part of the MTA's Genetec Enterprise Video Federation.
- Elaborate on the solution's capability to incorporate video analytics for enhanced functionality.

Submissions

Submissions should be sent to the address below no later than 07/14/2023.

New York City Transit
2 Broadway, Floor #, Office #19.141
New York, NY 10004
Attn: Shadé James, MPA
Tel (646) 252-6276

If you would like to make your submission electronically, please send it to Shade.James@nyct.com.