SAFE **SF** FLEET
Bus & Rail

MobileView   SEON

Transit Bus Surveillance Solutions
to Keep Your Passengers and Drivers Safe

Topeka Metropolitan Transit Authority

RFB TO-20-01 Bus DVR Replacement

August 29, 2019 at 1:00 PM

Safe Fleet Bus & Rail in Numbers

We are proud to present some results of our work in numbers that speak for themselves:
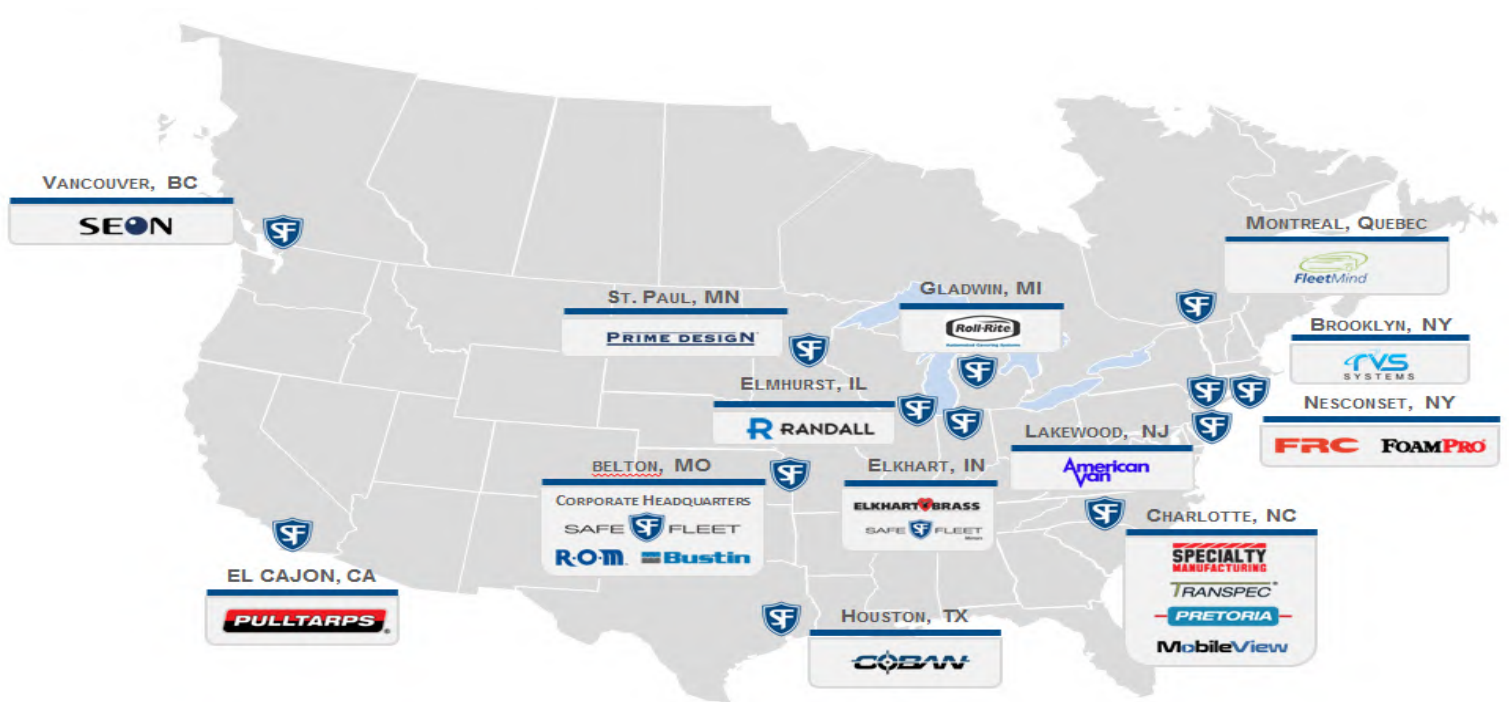

MOBILE VIDEO SURVEILLANCE BRAND IHS 2018

400,000+

SURVEILLANCE SYSTEMS SOLD

5,000+

PUBLIC TRANSIT AND SCHOOL TRANSPORTATION Customers

FOUNDED ORIGINAL SAFE FLEET BULLYING PREVENTION PROGRAM

OPERATING SINCE 1999

200+ EMPLOYEES

Safe Fleet Bus & Rail Values

Our core values ensure that the company operates focusing on the following principles:

- Developing innovative, customer-focused solutions
- Openness to technological changes
- Building outstanding relationships with our customers
- Responsibility for our work
- Product improvement to increase public safety

Where We Are

Trusted By

TABLE OF CONTENTS

August 29, 2019

Topeka Metropolitan Transit Authority

Topeka, Kansas

ATTN: Richard Appelhanz

Request for Proposals for Topeka Metro Bus DVR Replacement System RFP No. TO-20-01

Seon Systems Sales Inc. dba Safe Fleet Bus & Rail
111-3B Burbidge Street, Coquitlam, British Columbia V3K 7B2

Contact:
Steve Mentzer
Email: smentzer@safefleet.net
Telephone: 877-630-7366   Fax: 866-664-3677

Dear Mr. Appelhanz,

Seon Systems Sales Inc. dba Safe Fleet Bus & Rail is pleased to submit this proposal for your review and hope it will guide you in selecting the best solution for your needs. The proposed pricing is guaranteed for 60 days.

Seon and MobileView are two of five video surveillance brands owned by Safe Fleet Inc., the leading provider of safety solutions for fleet vehicles around the world. In 2017, Safe Fleet acquired MobileView, the #2 IHS-ranked Transit & Rail Surveillance brand and provider of video surveillance systems to leading transit agencies such as the Metropolitan Transportation Authority (MTA) in New York City. The combination of Seon and MobileView brands positions Safe Fleet as the transit surveillance market leader, with an impressive 38 years of combined innovation. As a recognized leader in mobile video surveillance, Safe Fleet Bus & Rail helps you make public transportation safer and more secure for operators, passengers and pedestrians. Our products are designed in-house, rigorously tested, purpose-built for the transit environment with proven reliability.

Beginning as Seon and in business since 1999, our company has sold over 400,000 surveillance systems to over 5,000 public transit and school districts throughout North America. As part of the Safe Fleet family of brands since 2014, Safe Fleet Bus & Rail has the expertise and product-breadth to enhance the safety and productivity of your fleet.

1

We have a reputation for quality and reliability, built on reliable products, long-term relationships and responsive customer service. Our approach to business ensures our clients realize the highest return on investment and lowest cost of ownership in the industry.

Safe Fleet Bus & Rail has a clear understanding of the requirements for a Bus DVR Replacement solution for the Topeka Metro fleet as a powerful step in the goal of enhancing the safety of passengers and employees at Topeka Metro.

We are pleased to offer Topeka Metro two different options that will meet the requirements associated with this RFB.

The first option is a direct plug and play solution that will allow Topeka Metro to connect existing cameras directly to the network video recorder without the use of adapters or special harnesses. The MV7000 Series NVR represents the high-end of video surveillance recorders and supports up to 16 IP or analog cameras to provide growth options within the Metro fleet. The MV7000 has a built-in Web server and supports full video and audio surveillance in High Definition video resolution up to 1080p at 30 frames per second. As a valued customer, we are offering this option at the lowest possible price.

The second option that Safe Fleet Bus & Rail – Seon will be proposing is also being offered at a valued customer discount and requires the use of adapters on the camera cables to integrate the existing cameras with the video recorder. The Seon TH8 Series DVR represents a hybrid recorder that can be extended to support from eight--up to thirteen cameras.   The TH8 will support cameras currently installed on Metro vehicles, including up to two IP cameras through the use of low-cost POE injectors. Wireless downloading and live viewing of video will also form part of the Seon solution.
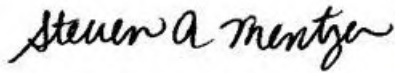
It should be noted that the number of adapters and POE injectors will likely vary based on the actual configuration of installed cameras deployed across the Topeka Metro fleet. We have provided a supplemental cost breakdown that will enable you to determine the unit cost of each element included as part of each option presented.

Safe Fleet Bus & Rail's partnership with Topeka Metro offers the following:

- An increased ROI by providing a path for upgrading technology as fiscal budgets allow
- An adaptable platform that allows for future expansion and integration with ITS projects
- A long-term partnership designed to meet your security needs while minimizing capital and operating costs

Thank you for the opportunity to present our safety and security solutions. We are confident that we are able to exceed the needs and expectations of Topeka Metro over the long term.

Best regards,

Steve Mentzer
Sales Manager
Safe Fleet Bus & Rail

Firm's Qualifications

Safe Fleet Bus & Rail is a leading supplier of mobile surveillance and fleet management equipment for the bus & coach industry, trusted by over 5,000 public transit systems and school districts across North America to help keep operators, passengers and pedestrians safe.

In business since 1999, Safe Fleet Bus & Rail has an extensive list of similar project successes and exceptional solutions designed to meet the exact requirements Topeka Metro has specified.

Corporate Information

Company Name:	Safe Fleet Bus & Rail	**Status:**	Incorporated
Key Contact:	Steve Mentzer	**Ownership:**	Private
Web-site:	www.safefleet.net/products	**Number of Employees:**	200+
Phone (toll-free):	1.877.630.7366	**President:**	Tom Gill
Head Office:	Coquitlam, BC, Canada	**Since 2014:**	Part of Safe Fleet Family
Established in:	1999		

Our Mission is Simple

To make transit safer and more secure for operators, passengers, and pedestrians.

Safe Fleet Bus & Rail

Seon Systems Sales Inc. dba Safe Fleet Bus & Rail was incorporated in 1999, and since then has remained dedicated to providing innovative mobile video surveillance system technologies specifically for public transit agencies throughout North America. Our advanced solutions are created through hardware design, software application services, and system integration. Our solutions assist transit agencies in making their services more efficient and safer while enhancing the experience for their passengers while onboard transit vehicles.

In 2014, Seon joined the Safe Fleet family of brands. Headquartered in Belton, MO, Safe Fleet owns a portfolio of brands that provide increased functionality and integrated solutions for fleet vehicle manufacturers and operators around the world. These brands serve five major markets including: emergency services, bus and rail, truck and trailer, utility, and industrial. With almost 1000 employees, the Safe Fleet family of brands operates over 500,000 square feet of manufacturing space and targets markets with increasing demand for operator, passenger and pedestrian safety.

In 2017, Safe Fleet acquired MobileView, the #2 IHS-ranked Transit & Rail Surveillance brand and provider of video surveillance systems to leading transit agencies such as the Metropolitan Transportation Authority (MTA) in New York City. The combination of Seon and MobileView brands positions Safe Fleet Bus & Rail as the transit surveillance market leader, with an impressive 38 years of combined innovation.

Over 5,000 school districts, school bus contractors, public transit agencies and motor coach operators across North America have chosen Safe Fleet Bus & Rail mobile surveillance and fleet tracking solutions to ensure passenger and driver safety. Our success has led independent research company IMS Research to name Safe Fleet Bus & Rail as the world's #1 manufacturer for the bus and coach industries.

Safe Fleet Bus & Rail will act as the primary provider consultant for the design, delivery and installation of the Bus DVR Replacement solution to Topeka Metro. Any sub-consultants or contractor that may be used to support Safe Fleet Bus & Rail on this project would be engaged in providing installation services only. Installation services will be provided either by certified Safe Fleet Bus & Rail installers or a Safe Fleet Bus & Rail certified contractor under the supervision of a Safe Fleet Bus & Rail installation employee.

The resources to be utilized in the delivery of installation services will be determined post award as the scheduling of these resources can only be determined at a future date. Topeka Metro can be assured that only qualified personnel will be engaged in a Topeka Metro project.

Safe Fleet Bus & Rail Corporate Structure

Tom Gill
President

Dan Pulskamp
Vice President Transit Bus & Rail Division

Curtis Smith
Vice President of Operations

Lori Jetha
Vice President of Marketing

Susan Gill
Director of Finance

Transit Bus & Rail Division
Sales Team

Project Management Team

Gav Kumar
Customer Service Manager

Justin Malcom
Director of Product Management

Richard Tier
Network Services Manager

Matt Thompson
Director of Engineering

Joyce Parsons
Director of Operations

Kara Butler
HR Manager

Marketing Team

Finance and Accounting Team

Technical Services and Support Team

Product Management Team

Network Engineering Team

Engineering Team

Production
Scheduling
QC & QA
Purchasing
Logistics
Materials
Handling
Shipping
Receiving

Reception

Experience and References

Safe Fleet Bus & Rail has a long history of successful installation projects and workload transitions, all of which were completed on time, within budget, and without interruption to the client. Our past successes are largely due to the competence of our staff, the structure of our organization, and our detailed approach to project planning.

Over the past 19 years, Safe Fleet Bus & Rail has fulfilled the demands of its clients and every project listed below was completed on time and within budget.

Reference Company Name: **Chapel Hill Transit**
Reference Contact Name: Peter Aube, Maintenance Director
Reference Address: 6900 Millhouse Road
Reference City, State, Zip Code: Chapel Hill, North Carolina 27516
Reference Phone #: 919.969.4939
Reference E-mail Address paube@townofchapelhill.org

Reference Company Name: **SMART - Suburban Mobility Authority for Regional Transportation**
Reference Contact Name: Thomas Dick, SMART Coordinator
Reference Address: 2021 Barrett Drive
Reference City, State, Zip Code: Troy, Michigan 48084
Reference Phone #: (248) 419-7960
Reference E-mail Address tdick@smartbus.org

Reference Company Name: **CT Transit**
Reference Contact Name: Dan Fiorillo, Superintendent of Maintenance Training & Technical Services
Reference Address: 100 Leibert Road
Reference City, State, Zip Code: Hartford, CT. 06120
Reference Phone #: (860) 522-8101 X266
Reference E-mail Address dfiorillo@cttransit.com

Qualifications of Team

Our dedicated and talented team of over 200 Safe Fleet professionals has significant expertise in mechanical, electronic, IT, administrative, network, and software as it pertains to mobile surveillance for the public transit industry. This corporate culture of responsibility and collaboration helps us provide the best mobile surveillance and fleet tracking solutions to ensure safe and efficient public transportation.

Safe Fleet Bus & Rail has a team of experienced, dedicated and professional employees with vast experience working implementing of transit agency solutions across North America which will be used to create a compelling solution for the requirements of the Topeka Metro project.

Safe Fleet Bus & Rail will act as the lead contractor with respect to the Topeka Metro Request for Proposal project. Safe Fleet Bus & Rail in partnership with Topeka Metro staff will manage the project from the initial planning stages, through installation, testing and commissioning of the system. The project team consists of highly experienced individuals all of whom have been involved with major projects similar to the Topeka Metro project.

Once the initial setup is completed and accepted by Topeka Metro, Safe Fleet Bus & Rail account management will continue to support Topeka Metro throughout the contract term and beyond for the life of the system in order to maximize the utility of the system and your investment.

Safe Fleet Bus & Rail's Project Team Experience and Qualifications

8

The following individuals represent the key team members from Safe Fleet Bus & Rail that will be involved with the Topeka Metro project.

The primary individuals responsible for the Topeka Metro's project documentation and administrative operations will be:

- Steve Mentzer, Sales Manager **(Lead contact)**
- Peter Klemm, Project Manager **(Secondary and technical contact)**
- Bruce Cole, Installation Manager

The above individuals have completed several recent Safe Fleet Bus & Rail installation projects with similar requirements and possess extensive installation and project management experience.

Why Choose Safe Fleet Bus & Rail

Solutions Designed For You
The safety and security needs of every transit system are different. We recognize that and work with you to develop a safety and security solution that is built to last, but flexible enough to adapt to your changing needs. Our consultative sales team is available to understand the needs of all stakeholders and recommend the best solution for your organization.

Purpose-built for Transit
All of our product development starts with talking to transit systems like you, to understand the goals and realities of safe public transit. Our North American-based team of engineers and product managers work together with the transit industry to ensure our safety and security solutions match the needs of Transit operators.

On-Time Project Delivery
We assign a dedicated project manager to make sure installation of a new surveillance system goes smoothly and is delivered on time. Your project manager will work with you and your project team to meet the demands of your organization.

Total Cost of Ownership
Safe Fleet Bus & Rail's fleet management and mobile surveillance products are designed to lower the administrative requirements of managing on-board video recording systems and bus fleets. With our products you'll get better information, faster for smarter decision-making.

Stellar Support
Safe Fleet Bus & Rail provides all its customers with training on installation and equipment maintenance. We guide our clients step-by-step through how to operate our software. In case of any issues and questions, our dedicated technical services team will help you diagnose and resolve the problem over the phone or by accessing your software remotely.

Expert Advice
To help our partners and customers successfully implement their surveillance and fleet management technologies, we provide case studies and expert advice. On our web site and blog, clients can find useful resources and up-to-the-minute mobile surveillance news & trends to stay ahead of the curve, as well as real-life stories (and solutions) straight from the trenches.

Reliable Partner
We are proud to have strong relationships with customers and partners. A collaborative culture lets us develop unique solutions to help you ensure passenger and driver safety

Proposed Solution - Overview

Safe Fleet Bus & Rail is pleased to propose two advanced Bus DVR Replacement solutions for consideration by Topeka Metro. Leveraging our two mobile video surveillance brands, Seon and MobileView, Safe Fleet Bus & Rail will be able to supply Topeka Metro with system solutions that will meet or exceed to requirements of the transit authority.

The Safe Fleet Bus & Rail - MobileView (MobileView) Main Proposal solution will include a hybrid Network Video Recorder that can use both IP and analog cameras and is capable of recording up to 16 channels but will be configured for use with up to eight cameras. As with the optional Seon solution, the MobileView system will reuse the existing MobileView and Safety Vision cameras. The solution will include wireless downloading with MobileView's Depot Manager fleet management application and live viewing of video. Other system features include GPS for speed and location and a status display & video tagging button. The MobileView system will also feature MobileView's Navigator video management software. MobileView also will supply technical manuals, training, warranty, and acceptance testing.

A Safe Fleet Bus & Rail – Seon (Seon) solution (Option 1) will consist of an Analog High Definition digital video recorder (capable of supporting up to 10 cameras), reuse of the existing MobileView and Safety Vision cameras and Seon's Smart Reach wireless downloading with vMax Commander fleet Management software. Other features include vMax Stream for Live Video, GPS for speed and location, a G-Force sensor and a status display & video tagging button.

10

The system will also feature Seon's vMax View video management software. Seon also will supply technical manuals, training, warranty, and acceptance testing.

Main Proposal – Safe Fleet Bus & Rail - MobileView Solution

Safe Fleet Bus & Rail - MobileView (MobileView) is proposing a Bus DVR Replacement system solution that will provide Topeka Metro with features, functionality, flexibility and expansion capabilities that are class and industry leading. MobileView's proposed system features a hybrid IP based Network Video recorder that can accommodate both IP and Analog high definition cameras. The 7001H NVR, will offer Topeka Metro a robust and reliable solution to view, manage save and share video, metadata and other data that is recorded across its fleet. The proposed solution will include industry leading features such as passive GPS, high definition video; and other sophisticated features that are critical to the operation of Topeka Metro.

Topeka Metro currently has MobileView equipment on their vehicle fleet. Upgrading to the latest hybrid DVR technology will mean that Topeka Metro will have familiarity with the upgraded NVR similar to their current solution. This will minimize training requirements for both users and mainetnance personnel, limit disruption to your team as users will be already be familiar with the software and integration of the new technologies including wireless Depot Manager and the live streaming feature will simpler and more seamless.

Network Video Recorder

11

STANDARD FEATURES

- Up to 16 analog or IP channels at real-time frame rate and up to 1080P resolution
- Flexible mass storage options (up to 4TB, Data Mirror option, SSD & HDD models)
- Recording quality configurable on alarm
- Integrated USB interface simplifies configuration and firmware updates
- 12 Digital Inputs/2 Analog Inputs/2 Relay Outputs
- Integrated GPS records vehicle speed, location and time sync
- Optional 802.11 AC, AN, BGN wireless
- LED and LCD displays provide at-a-glance and detailed system status
- Internal shock and vibration solution

Safe Fleet Bus & Rail – MobileView is proposing our Hybrid Network Video Recorder (NVR) that supports a total of 16 analog and/or IP cameras simultaneously in any combination. Each camera can be configured independently for video resolutions up to 1080P at capture rates up to 30fps. Advanced capabilities are built-in as standard features including power brownout protection, built-in 3-axis G-Force sensor (accelerometer), integrated GPS, J1939 CAN BUS integration capabilities, H.264 compression standard for superior video quality, dual stream video capabilities, a built-in WEB server to simplify programming (no software required), and built-in card slot for our optional removable 802.11 AC/AN/BGN wireless card.

The MobileView Network Video recorder (NVR) has the ability to be configured to record continuously or by event, an easy to follow menu allows the user to program the recorder to meet its specific needs. NVR firmware settings determine overwriting options: either to continue recording over the first video recorded, or to signal an alarm when the disk is full. Safe Fleet Bus & Rail will be happy to guide you and create a custom program for your property that meets your specific recording time needs.

The NVR requires no operator intervention. It automatically starts up upon an ignition sense and continues to operate until the bus shuts down, or until a configurable shut down delay time is achieved.

The NVR is equipped with front panel mounted controls for system status viewing and system configuration; the front panel mounted controls have the capability to be password protected.

The NVR is environmentally protected from power spikes (up to 30 volts), surges, and reverse polarity.

The fan less NVR is equipped with a temperature sensing system; it shall not begin writing to the hard drive until a safe operating temperature is reached.

The NVR will utilize two (2) TB's of storage with a locking removable hard disk drive (RHDD). The RHDD also acts as a docking station with a USB 3.0 port so an external docking station is not required. The drive is also keyed to provide recording when in its locked position.

Our NVR is capable of recording up to sixteen (16) video channels with a combined frame rate of at least 480 frames per second (fps). The NVR can automatically switch from normal to event/alarm video frame rate upon the activation of an event/alarm. Each of the 16 camera frame rates is uniquely configurable. The NVR utilizes H.264 compression and stores video in a proprietary secure format which uses an algorithm to ensure authenticity. The system also supports user-configurable resolution settings, (from lowest resolution to 1080p). The system hardware and software supports simultaneous audio recording for each interior camera. The NVR has a log file (like a diary) that documents all activities throughout the NVR operation, including startup, shutdown, error conditions, etc. The log file is viewable using NVR software. The NVR comes complete with plug in wiring harnesses for all NVR functions including but not limited to power, alarm signals and peripheral connections for expansion, GPS, Wi-Fi and Cellular. The NVR includes an inertia switch to trigger automatically recording of events.

The NVR includes an interface with a Video Event Button/Switch. The button/switch will be connected to an alarm input of the NVR. When it is triggered the video / audio will be automatically saved for retrieval and it will not be overwritten.

12

There are 12 digital event or alarm inputs are independently configurable for each of the following items:

• Pre-Alarm Time: The amount of time (configurable in either minutes or seconds) prior to the event/alarm to be included with the event/alarm video.

• Duration: The amount of time (configurable in either minutes or seconds) to be included for this event/alarm.

• Trigger: Which switch or discrete input is associated with this event/alarm.

• Frame Rate(s): The frame rates and camera resolution and audio are independently configurable for each camera input and used for the duration of the event/alarm. Upon completion of the programed event or alarm the recorder will return to its previously configured state.

The system allows through configuration for and event or alarm video data to be stored permanently until deleted by a qualified user (password protected) within the video review software.

The NVR has an internal clock that operates independent of the main power supply. Its operational lifetime exceeds seven (7) years, and a drift that does not exceed more than one (1) minute per month. The NVR has an Applications Programming Interface (API) via an Ethernet connection that allows the clock to be synchronized to an external time source – such as an existing CAD/AVL system that already supports GPS. The DVR shall also support time synchronization via an NTP interface or GPS interface. The Date/Time is associated with the video related to each on-board camera.

The MobileView system has free software (Navigator) which is capable of playback, event search, archiving, as well as time and date clip searches and compatible with Microsoft Windows Operating Systems, Windows 7 Pro and Windows 10 Enterprise. The system has multiple ways to access video, one is the ability to create an exe. evidence file that can be played on any Windows based PC without needing to down load the Navigator software. Video clips can be retrieved by; Event, Alarm, Tag File and Time & Date.

The Navigator software allows a user to save an entire video clip, or a portion of a clip to a file on the disk, to a CD/DVD, USB or to any other digital media. These can be saved in any of the following formats:

• Application mode (A single executable file that contains the video clip as well as the viewing application software. The video clip data will still be in secure format. This is the mode most often used when sending out video to a 3rd party such as the police, or lawyers for review)
• A non-secure format such as .AVI.

The user shall be able to save a .JPG image (or other standard image format) to a file.

At a minimum, the date, time, camera identification shall be shown for each camera view.

13

Removable Interchangeable Hard Drive Caddy

Our proposal includes a removable interchangeable 4TB Hard Disk Drive (HDD) Caddy with built-in shock and vibration provisions. The caddy locks into the recorder using a key lock with removable key, and can easily be removed and replaced in less than a minute with no NVR reprogramming required.

Recorder configuration parameters are stored in the recorders memory, not on the removable caddy so that removal of the caddy does not affect the recorder programming. The caddy has a built-in USB 3.0 port for direct connection to a laptop for review of the contents, eliminating the need for a separate docking station.

Cameras

This proposal and the MobileView NVR will allow Topeka metro to reuse the existing cameras on the vehicles. Topeka Metro will be able to simply plug the existing cameras into the NVR. For the Safety Vision cameras, Safe Fleet Bus & Rail will include an adaptor.

14

System Accessories

Event Button/Status LED Module

The system will include our dual function Event Tag Button/Status LED Module. The module has a push button the bus operator can push to create a tagged video alarm. As noted above, the alarm video is user programmable for pre and post capture time. The module also has two LEDs to provide system operating status to indicate a system issue so the operator can alert maintenance personnel to check the system.

Multi-Mode Antenna (GPS)

Our NVR has built-in GPS to support recording of vehicle location and speed. Our proposal includes installing our multi-mode antenna to support GPS. Our NVR also is equipped with a built-in card slot to accept our optional 802.11 AC/AN/BGN wireless card to support future wireless connectivity for Topeka Metro if desired. Our multi-mode antenna will also support the optional wireless functionality with no further adjustments or installation modifications necessary.

System Software

Our proposal includes our WEB based advanced video management software Depot Manager and our license free client video review/playback software Navigator Viewer. Depot Manager offers advanced features to provide a video management solution built for today's mass transit applications.

Video Review/Playback Software

Our proposal includes our license free client video review/playback software Navigator Viewer. Navigator is license free so installation is unlimited and the software can be provided to 3rd parties such as legal representatives and law enforcement if required. Recorded events saved on the recorders removable storage caddy are independently named including date/time for easy identification and searchable using Navigator. With on-board wireless functionality the vehicle system capabilities include remote viewing of live and recorded video and diagnostics as needed, provided the vehicle has an active connection. Below are some key features of our Navigator software:

- Remote connection with wireless
- Playback and Review of video stored on a HDD caddy
- Archiving video for storage or distribution
- Archiving camera images (jpg) for storage or distribution
- Built-in evidence media creation utility to create an exe file that requires no software for playback, which is ideal for distribution to 3rd parties during investigations.
- On-screen vehicle tracking with integrated maps.
- Easy to use interface with camera views, GPS view, and Disk analysis timeline that graphically shows alarm events. See Figure 1 below.
- Built-in help files for easy instruction
- Printable camera image reports.
- Intelligent time based search capabilities for searching archived video
- Live video review when wirelessly connected to the NVR.
- Log File and device diagnostic log that can help transit staff view faults and adverse conditions detected by the system during operation.

15

Cameras can be tiled for simultaneous viewing of all cameras as shown below in Figure 1, tiled to display only user selected cameras, or single view. Individual camera images can be printed in a report format with select metadata overlay as well.

Figure 1 – Navigator Viewer Main Page
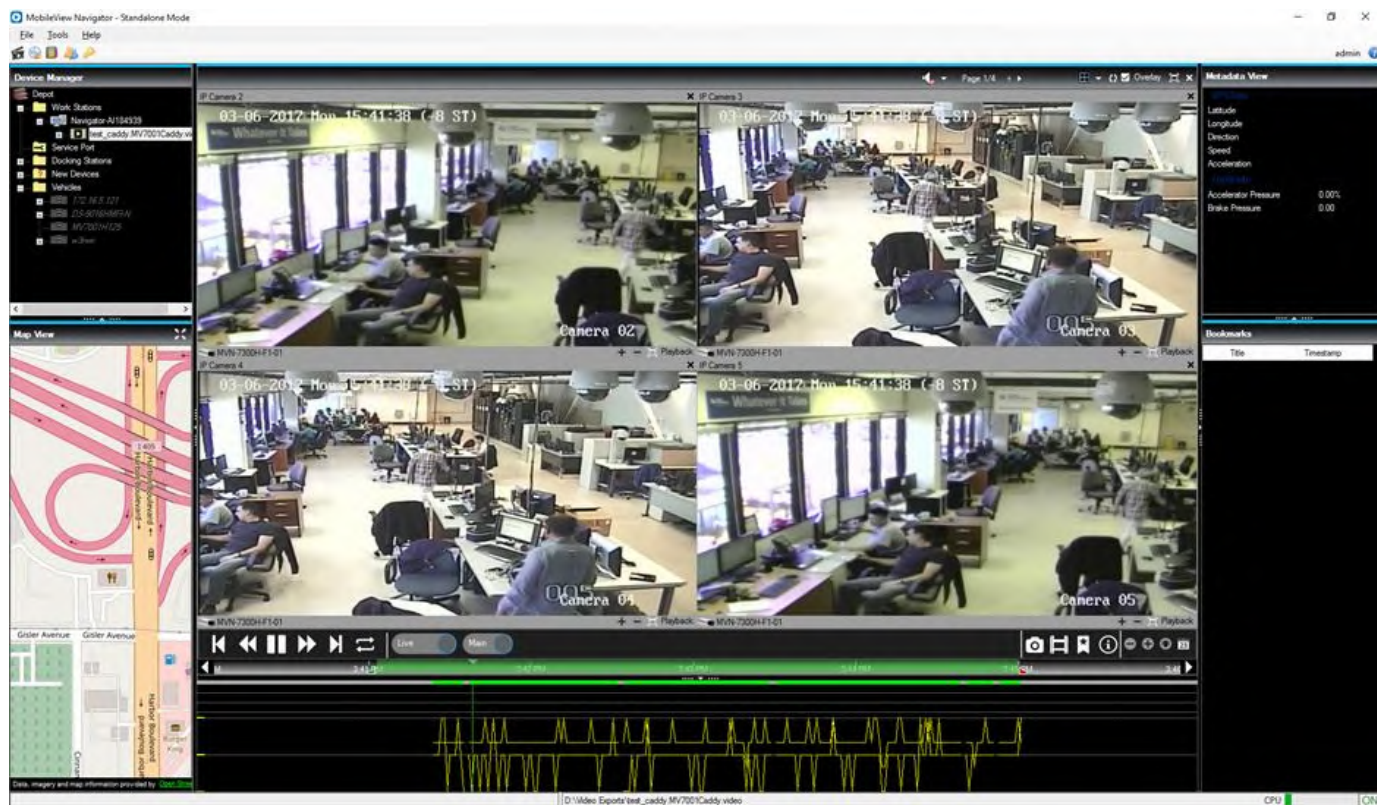
Figure 2– Navigator Viewer Health Diagnostic Report below.

Details

Diagnostics

General
Last checked	5/11/2016 12:16:11 PM
Device Name	Bus4601
Device Date/Time	5/11/2016 9:16:30 AM

Network
Host name	Bus4601
IPV4 Address	0.0.0.0	0.0.0.0 [Wireless]
Subnet Mask V4	0.0.0.0	0.0.0.0 [Wireless]
Gateway V4	192.168.1.1	0.0.0.0 [Wireless]
MAC Address V4	8c:e7:48:a2:c4:5b

System
Model Name	MV7001
Serial number	MVN70011445064
Firmware Version	V4.0.29

System Health
Overall System Health	Normal
Device Responded	OK
Power-On Duration	0 Days 4 Hours 38 Minutes 52 Seconds
Cameras in video loss	None
Active Alarms	None

Disk Info
Disk Capacity (GB)	931,931
Disk Count	2
Disk Status	OK,Sleep
Disk Temperature ($^\circ$C)	47,46
SD Card Status	OK

Recording
Recording Status	Recording
Recording Time Left	12 Days 9 Hours 30 Minutes 45 Seconds
Video Stored	76 Days 19 Hours 54 Minutes 5 Seconds
First Recorded Video	2/24/2016 1:22:19 PM
Lastest Recorded Video	5/11/2016 9:16:24 AM
Video Format	Ntsc

Video Management Software

Depot Manager (DM) is our advanced video management software. DM improves overall fleet operations by allowing personnel to monitor real time on board cameras and events, as well as automating video download/retrieval without having to manually remove recorder storage caddies resulting in streamlined operational efficiencies. DM provides advanced functionality including:

MobileView® Depot Manager represents an advanced software solution built for today's mass transit applications.

- System Health Monitoring – System checks in when vehicle starts and reports potential problems. A Dashboard aggregates the problem areas across the fleet
- Automatic Video Downloads – User defined alarms such as operator tag/panic button activation will automatically download to the server
- Scheduled Video Downloads – Video requests can be scheduled and prioritized for download by end users
- Camera checks – Camera checks can be scheduled and compared to a reference images to improve system PM (Preventative Maintenance) efficiency
- Batch Configuration – Configuration changes and firmware can be pushed to the system remotely without having to visit each vehicle
- Live Look-in – If the system is connected wirelessly, the end user can establish a live video feed using a web browser
- User/group Management – Management system to provide different permissions for different users. For example, the maintenance user group may not have access to view and save video.
- e-mail notifications to notify personnel of various actions
- The Maintenance Case module allows users to track vehicle uptime. Unique ticketing system allows users to attach video, audio, GPS coordinates and vehicle health diagnostic information

🔒 Secure Access
📶 Comprehensive Monitoring
📄 Video File Management
🍴 Fleet Health Diagnostics
⚙ Maintenance Management

18

Our proposal includes a central server license for Topeka Metro administration facility and depot sync licenses for the bus facility to support wireless video management requirements. Our solution will provide seamless video management from the central video server.
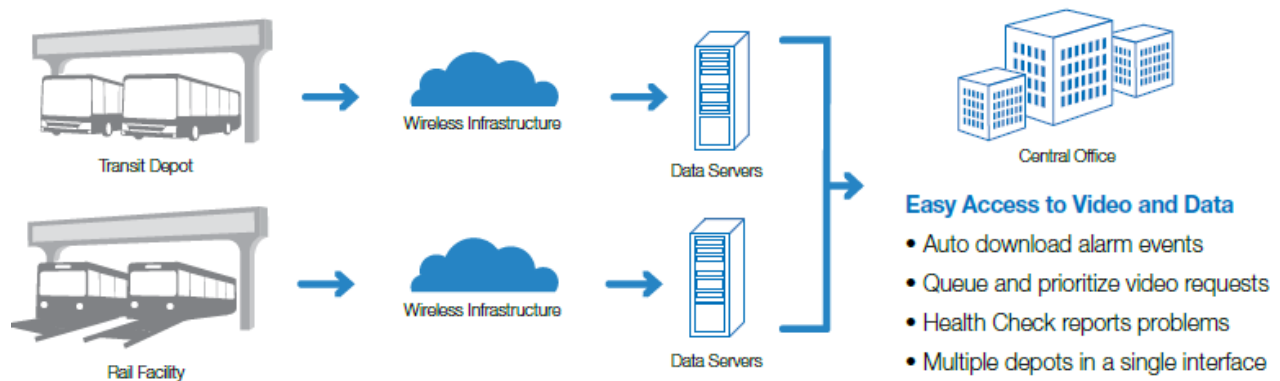
MobileView DM uses a centralized "Wheel & Spoke" design to co-ordinate activities between a Central Server, which holds information about the entire fleet, and the individual Depot Server, located at bus yard/maintenance facility.
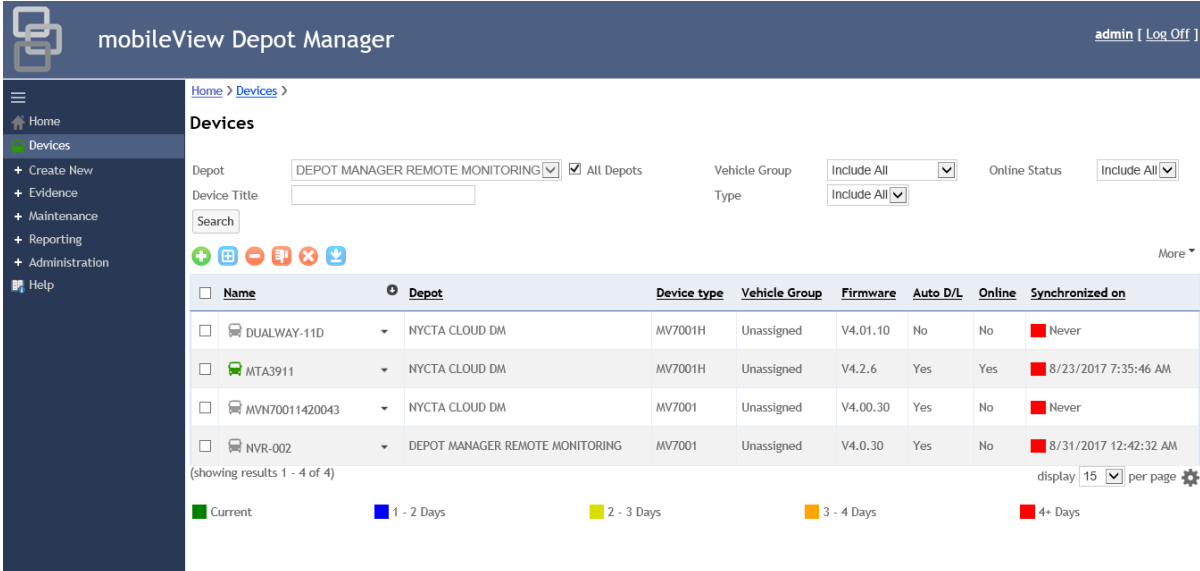
When a video download is requested, any individual Depot Server that is communicating with the appropriate bus recorder will request video from the recorder and store the video locally. If the vehicle moves away from the local WLAN coverage while a transfer is in progress, the state of the download is stored (in the Central Server) so that when the vehicle enters WLAN coverage, the video request resumes at the point at which it stopped previously. Once the entire video request is completed, the depot server transfers the relevant portions of the video request to the central server, in a process called replication, where the portions are seamlessly combined into a single video archive and stored. Depot Manager uses an IIS-hosted Web site to display the content of a Microsoft SQL2008/SQL2012 database. The SQL database is used to store data from the vehicles for video archives.
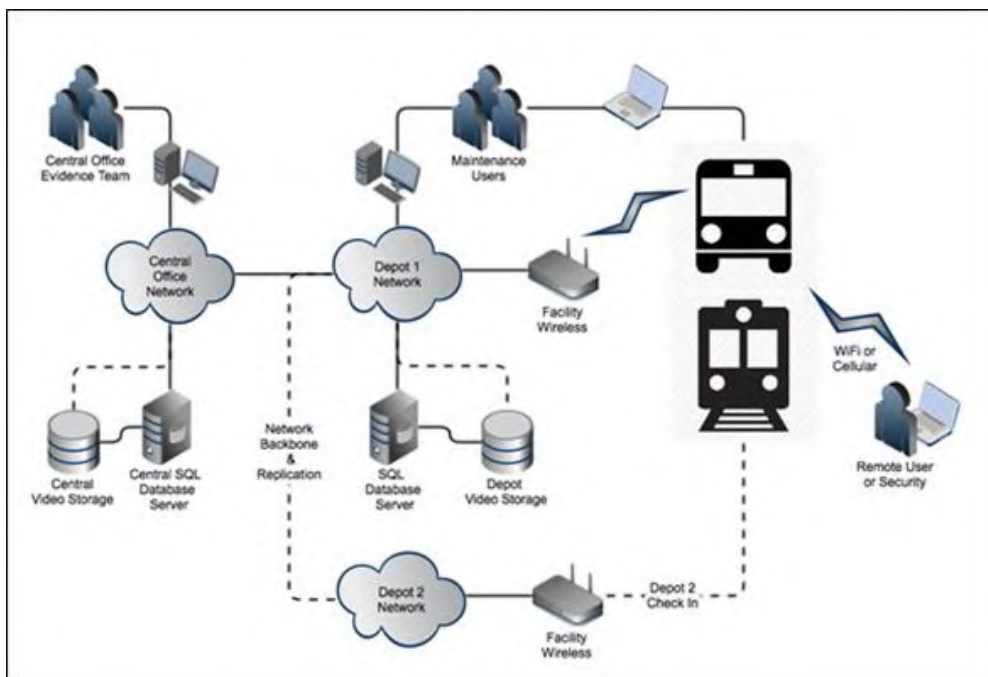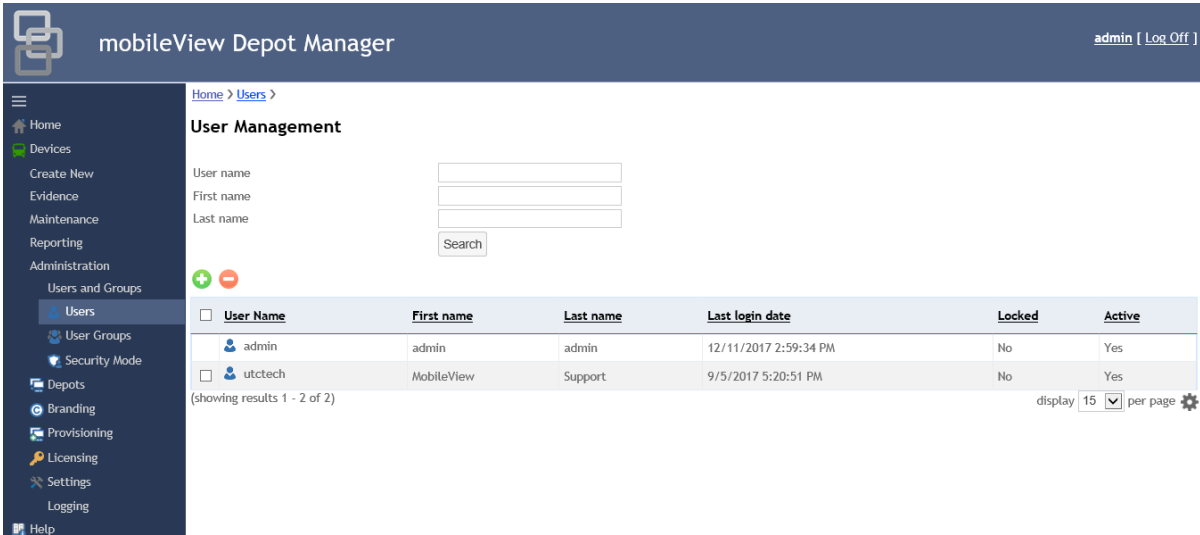
Several screen shots are provided below to show some of the features of DM.

Device Manager GUI

20

User Management & Permissions GUI

Camera Check GUI

Dashboard GUI

MobileView Live

The MobileView Live user interface gives transit personnel the freedom to access, and monitor their vehicle cameras connected from MobileView DVR systems. The application provides transit personnel with live data from a wireless connection anywhere, anytime (requires iOS 6.1 or later)

Key features of the MobileView Live mobile application include the following:

- View any camera on select networked MobileView DVRs
- Password and VPN protection provides security and protects against unauthorized access
- Mobile access provides portable method for maintenance personal to ensure camera views are accurate with no additional equipment required
- MobileView Live can be used over a Wi-Fi or cellular network
- Simultaneous camera monitoring
- User friendly gallery to capture, export, e-mail, and manage snapshots
- Favorites menu for cameras and snapshots for easy access
- Landscape mode for flexibility
- MobileView Live supports connections using DNS when available (vehicle ID can be used instead of IP Address for connection)

22

Optional Items

Rear View Monitor

Safe Fleet Bus & Rail - MobileView is proposing our RVM2 high resolution monitor in conjunction with the existing rear view camera on the Topoeka Metro vehicles to capture video at the rear of the vehicles.

The RVM2 series monitor system includes the following features:

- Designed for use in the North American public transportation environment
- 3 Video inputs and 3 Trigger inputs
- 7" Diagonal screen - TFT Active Matrix System display

Optional Proposal – Safe Fleet Bus & Rail - Seon Solution

Safe Fleet Bus & Rail - Seon is proposing a Bus DVR Replacement solution that will provide Topeka Metro with features, functionality, flexibility and expansion capabilities that are class and industry leading. Safe Fleet Bus & Rail - Seon's line of video recorders, specifically the TH8, ten channel analog high definition DVR, will offer Topeka Metro a robust and reliable solution to view, manage save and share video, metadata and other data that is recorded across its fleet. The proposed solution will include industry leading features such as wireless downloading, live streaming, passive GPS, high definition video and other sophisticated features that are critical to the operation of Topeka Metro.

TH8 High Definition Digital Video Recorder

Safe Fleet Bus & Rail - Seon is proposing a solution that incudes our 10 channel TH8 digital video recorder with a 2 TB hard disk drive. This DVR supports up to 10 video and audio channels – in any combination of high definition or standard resolution with the ability to support 2 IP cameras. This means Topeka Metro can capture critical video in D1, 720 and 1080p resolution. . A second SD card based feature records a secondary stream of video at CIF resolution and 5 fps to provide a redundant recording capability. An SD card is not included as part of this response.

The TH8 DVR features:

- Advanced capabilities of the TH8 are built-in as standard features including power surge protection,
- SuperCaps technology
- integrated passive GPS capability
- H.264 compression standard for superior video quality
- dual stream video capability
- integration capability with Smart Reach wireless technology
- Rugged construction designed for transit applications
- 3-axis G-Force sensor/accelerometer

Cameras

The Safe Fleet Bus & Rail - Seon solution will allow Topeka Metro to reuse the existing cameras on the vehicles. Topeka Metro will be able to simply plug the existing cameras into the DVR with the use of adaptors.

Smart Reach Wireless Download

Topeka Metro has indicated that video retrieval through a wireless network is a desired feature of any solution being proposed. Safe Fleet Bus & Rail - Seon is proposing our Smart-Reach WiFi which will allow Topeka Metro to wirelessly access and download video and data from the vehicle at Topeka Metro yard locations.

Safe Fleet Bus & Rail - Seon's professional services division lead by Richard Tier, Network Services Manager and his team will work with Topeka Metro to implement the solution together. The solution will allow users to automatically download video and alarm files through our vMax Commander fleet management application according to a set schedule or on a one-time basis. Additionally, Topeka Metro will still have the option/ability for manual downloads in case of emergency or preference.

Safe Fleet Bus & Rail – Seon's solution will leverage the future wireless network to be installed by Topeka Transit. A wireless site survey will be conducted upon award to ensure that the Topeka Metro network will support the industrial strength Smart Reach solution.

Below are some key features of our Smart Reach solution featuring vMax Commander.

vMax Commander is a web-based video management software application designed to drastically reduce the time and effort required to locate, download and review video of on-board incidents. Accessible from anywhere with Internet access, vMax Commander offers a dashboard view of video system health status, alarms, and downloads, and lets you schedule video to automatically download when the bus returns to the yard, and adjust DVR settings remotely, all using a simple web browser.

Safe Fleet Bus & Rail - Seon's vMax Commander software enables a high level of management control.

- vMax Commander manages the automatic downloading of tagged events without any user intervention.
- vMax Commander facilitates the investigation of customer complaints by allowing users to schedule downloading of video around times of possible incidents. Downloads can be scheduled at any time of night and day, irrespective of whether the bus is within Wi-Fi range or not. The requested video will automatically be downloaded the next time the bus connects to the system.
- In addition, users can connect to the bus to view live or recorded video whenever the bus is connected to the Wi-Fi system.
- Video is downloaded securely using Wi-Fi encryption. Video is stored in a tamperproof, proprietary format to prevent alteration and ensure acceptance in legal cases.
- vMax Commander also allows remote managing of the configuration of hardware installed in the bus, further enhancing operational efficiencies

Seon's Engineering Services Team is dedicated to designing and commissioning Wi-Fi systems, installing and configuring vMax Commander software, and providing training and follow up support for these products.

Each member of the team is a certified Wi-Fi professional as accredited by the CWNP (Certified Wireless Network Professionals) organization. This organization provides vendor neutral Wi-Fi training and certifications, which means that we are not committed to any one specific Wi-Fi vendor. This certification allows us to integrate Seon products with customer supplied Wi-Fi equipment from various vendors.

This training has also equipped our Engineering Services team to design customized Wi-Fi solutions based on various environmental considerations, such as back haul links to connect around obstructions, directional antennas to ensure proper connectivity in long narrow parking lots, etc.

Live Stream

Topeka Metro has identified a need for a Live View feature to enable Topeka Metro to access a live view on the vehicles. vMax Stream is Safe Fleet Bus & Rail – Seon's live viewing application including a mobile celluar router and antenna. vMax Stream lets you connect to a Safe Fleet Bus & Rail - Seon video surveillance system in real-time, via a secure cellular network connection, to view video and audio from any installed bus camera. This means that Topeka Metro can monitor on-board activity on the bus from anywhere.

Safe Fleet Bus & Rail – Seon acknowledges that Topeka will have cellular routers installed on the vehicles and as we have integrated with most brands of transit related cellular routers we are confident that our Live Stream solution will be able to utilize the Topeka supplied routers.

vMax View Video Management Application

The proposed system solution includes our advanced, user friendly vMax View video review management application. vMax View will allow Topeka Metro to manage recorded video and data.

vMax View is our client viewing software for video review and basic video management. vMax View is license free with no charge lifetime updates so installation is unlimited and the software can be provided to 3rd parties such as legal representatives and law enforcement if required. Recorded events saved on the recorder's removable hard disk drive are independently named including date/time for easy identification and searchable using the software.

Below are some key features of our vMax View software:

- Playback and review of video stored on a HDD
- Archiving video for storage or distribution
- Archiving camera images (jpg) for storage or distribution
- Built-in evidence media creation utility to create an exe file that requires no software for playback, which is ideal for distribution to 3rd parties during investigations.
- Historical on-screen vehicle tracking with integrated maps.
- Easy to use interface with camera views, GPS view, and video timeline that graphically shows alarm events.
- Intelligent time based search capabilities for searching archived video

Optional Items

Rear View Monitor

Safe Fleet Bus & Rail - Seon is proposing our RVM2 high resolution monitor in conjunction with the xisting rearview camera on the Topoeka Metro vehicles to capture video at the rear of the vehicles.

The RVM2 series monitor system includes the following features:

- Designed for use in the North American public transportation environment
- 3 Video inputs and 3 Trigger inputs
- 7" Diagonal screen - TFT Active Matrix System display

System Accessories

Passive GPS Receiver and Antenna

The proposed system includes passive GPS data recording that will provide Topeka Metro with vehicle location, vehicle speed and time data. The GPS receiver is integrated with the DVR wiring harness and utilizes an external low profile antenna.

Event Button/Status LED Module

The system will include our dual function Event Tag Button/Status LED Module. The module has a push button the bus operator can push to create a tagged video alarm. The module also has LED indicators to provide system operating status to indicate a system issue so the operator can alert maintenance personnel to apossible issue with the on-board system before the vehicle leaves the yard.

Signals and Alarms

The DVR is equipped with 5 external signal inputs and 5 internal signals. There are also 4 internal alarms to connect to signals or internal triggers plus 2 external alarms. This will give the Topeka Metro great flexibility to configure the vehicles to record critical information and video.

G-Force Sensor

The proposed system will be confirgured with a 3-axis G-force sensor or accelerometer. This sensor will automatically mark driving events such as hard acceleration, braking or excessive speed and accidents. This will provide managers with critical information on driver behavior and accidents for security and safety.

Some key features include:

- Features two modes of detection: accident, and driver behavior.
- Performs with both horizontal and vertical mounting positions parallel to the vehicle axis.

Hard Drive Dock

The proposed solution will include a Hard Drive Dock. The HDD Dock is provided with vMax View software to accommodate the DVR drive. It will allow Topeka Metro to access video from the drive using vMax View viewing software through a USB interface.

27

Technical Specifications

A complete Minimum Specifications Matrix is included with this response beginning on the following page. In addition, Product Data sheets for the proposed system solutions can be found following the Technical Specifications Matrix.

System Reliability

Safe Fleet Bus & Rail including its Seon and MobileView brands is the leading manufacturer of video surveillance and fleet management solutions for school and transit buses. Independent research firm, IHS Group, has consistently ranked Safe Fleet Bus & Rail - Seon as the #1 provider of mobile surveillance equipment to the bus and coach industry in their biennial report on the mobile surveillance industry from 2007 to 2017. Safe Fleet Bus & Rail has over 5,000 customers and has installed over 400, 000 systems since its inception in 1999 and the acquisition of MobileView in 2017.

In 2014, Seon joined the Safe Fleet family of brands. Headquartered in Belton, MO, Safe Fleet owns a portfolio of brands that provide increased functionality and integrated solutions for fleet vehicle manufacturers and operators around the world. These brands serve five major markets including: emergency services, bus and rail, truck and trailer, utility, and industrial.

Topeka Metro Minimum Specifications Matrix		
Requirement	**Proposed Compliance Status (C/N/CM)**	**Comments**
C = Comply N = Non Comply CM = Comply with Modification		
Metro Specifications		
• Remove existing DVRs on each bus as specified by Metro.	C	
• Install new DVRs on each bus as specified by Metro.	C	
• Live video viewing from any bus at any time accessible through the internet.	C	Safe Fleet Bus & Rail can provide this functionality with the MobileView Live and Seon Stream live viewing applications. Please reference the product data sheets in the Proposed Solution section of this response for complete details.
• Ability to review video from each DVR without removing the hard drive.	C	Safe Fleet Bus & Rail can provide this functionality with the MobileView Depot Manager and Seon Smart Reach and Commander applications. Please reference the product data sheets in the Proposed Solution section of this response for complete details.
• DVR must be compatible with current Metro cameras.	C	Safe Fleet Bus & Rail can reuse all the existing cameras on the current fleet.
• Lifetime technical support including software updates and maintenance will be provided. Please include your support contract.	CM	Safe Fleet will provide lifetime remote technical support for the proposed system options. Annual fleet audit maintenance services can be provided at an additional cost.

Topeka Metro Minimum Specifications Matrix		
Requirement	**Proposed Compliance Status (C/N/CM)**	**Comments**
• Warranty will be provided. Please include your warranty coverage period, terms and conditions.	C	Please reference the included Product Warranty information in the Product Warranty section of this response. Safe Fleet Bus & Rail has included pricing for an optional extended warranty coverage for years 4 and 5.
• Follow all contract requirements on pages 3-6.	C	
• Furnish all labor, material, and equipment necessary for satisfactory contract performance.	C	
• Ensure that each DVR is fully functional and ready for use upon project completion.	C	

MobileView
A Safe Fleet Brand

MobileView® 7001H Hybrid Network Video Recorder

16-channel hybrid network video recorder for mobile transit applications

HD | LOCKING HARD DRIVE | 30/25 FPS | 4TB MAX STORAGE | QUICK CONNECT WIRING HARNESS

WEB CONFIGURATION | USB IMAGE REVIEW | MobileView NAVIGATOR | MobileView DEPOT MANAGER | 3 year WARRANTY

OVERVIEW

The MobileView 7001H Hybrid Network Video Recorder (NVR) supports up to 16 analog or IP channels for full video and audio surveillance on transit and rail vehicles. Supporting individual configuration on each channel and video resolutions up to 1080p at 30fps, the 7001H Hybrid NVR allows tailored capture of the highest quality images without missing any important details.

This robust NVR also includes optional 802.11 AC compliant wireless, power brownout protection and integrated GPS. A built-in web server simplifies installation and system checkout. The front-mounted, plain text LCD keypad provides detailed system status and allows quick access to device management tasks.

The 7001H Hybrid NVR is compatible with MobileView Depot Manager which allows users to monitor fleet health status, receive automatic event notifications, download scheduling, camera checks and maintenance ticketing and tracking.

STANDARD FEATURES

- Up to 16 analog or IP channels at real-time frame rate and up to 1080P resolution
- Flexible mass storage options (up to 4TB, Data Mirror option, SSD & HDD models)
- Recording quality configurable on alarm
- Integrated USB interface simplifies configuration and firmware updates
- 12 Digital Inputs/2 Analog Inputs/2 Relay Outputs
- Integrated GPS records vehicle speed, location and time sync
- Optional 802.11 AC, AN, BGN wireless
- LED and LCD displays provide at-a-glance and detailed system status
- Internal shock and vibration solution

MobileView® 7001H Hybrid Network Video Recorder

16-channel hybrid network video recorder for mobile transit applications

Specifications

Video Surveillance

Channels	16 analog or IP
Frame Rate	NTSC: 1-30fps; PAL: 1-25fps
Recording Resolution	Configurable up to 1080p
Incoming Bandwidth	64Mbps
Video Output	1-ch CVBS Output, Aviation Connector, 1.0 Vp-p, 75 Ω; NTSC 704 x 480, PAL 704 x 576
	1x VGA with configurable resolutions
Storage Capacity	Up to 4TB
Storage Solution	Dual 2.5" disk drives, support SSD and HDD technologies
Caddy	Removable, hot-swap support, built-in USB 3.0 interface
Data Export	Via HDD caddy
Geolocation & Positioning	GPS based tracking
Clock sync methods	Via GPS or network timeserver

Digital Input Recording

Alarm Input	12 digital / 2 analog
Alarm Output	2 relay out
	2 status out

Networking & Interfaces

NIC	2, RJ45
Standard Protocols	DHCP, NTP, DNS
Wireless	Optional 802.11 AC, AN, BGN Wireless Client
Antenna	1 Wireless Antenna, 1 GPS Antenna, SMA Connector
USB/eSATA	1 USB 3.0
Serial Port	1 RS232, 1 RS422

Physical

Dimensions (W x H x D)	8.1 x 4 x 11.42 in.
Weight	~ 15 lbs

Environmental

Temperature	-20ºC to 55ºC (-4ºF-131ºF)
Humidity	10% – 95%

Electrical

Power	Input: 9VDC to 32VDC; Output: DC +12V/2A
Power Consumption	30W typical

Ordering Information

MobileView 7001H NVR Kit Items

MVN-7300H-F1-K1	7001H, 16CH Hybrid NVR, Harness, Connection Kit
MVN-7300H-F1-01	7001H, 16CH Hybrid NVR, No Harness or Media

MobileView 7001H Caddy Kit Items

MVN-1002-K2-233	2TB Media Kit (1TB HDD + 1TB HDD Media), USB 3.0
MVN-1002-K2-233-SS	2TB Media Kit (1TB SSD + 1TB SSD Media), USB 3.0
MVN-1002-K2-433	4TB Media Kit (2TB HDD + 2TB HDD Media), USB 3.0

7001H Component & Accessory Items

MVN-T7300RF03	RF Option Card, 802.11 AC,AN,BGN, Dual-Mode
MVN-4004-00-00	Docking Station Interface
MVN-4037-00-P1A	7001H, J1 Power Harness, 15 in. length
MVN-4037-00-P2A	RS485 Serial Port Harness, 15 in. length
MVN-4037-00-P3	Serial Port Harness, 15 in. length
MVN-4037-00-P4	Rear AV Monitor Harness, 15 in. length
MVN-4037-00-P67	J2, J3, J5 Multi IO Harness, 15 in. length
MVN-4037-40-00	4CH Analog Video Harness, 15 in. length
MVN-4039-IH-01F	Interconnect Harness, 2Pin to 3Pin Molex, Qty. 16
MVN-4039H-F0-00	Hybrid Connection Kit, 16 Analog

Dimensional Diagrams

11.42 in. (290mm)

4.0 in. (102.3mm)

8.1 in. (205mm)

SAFE FLEET
Bus & Rail
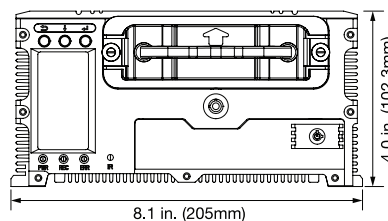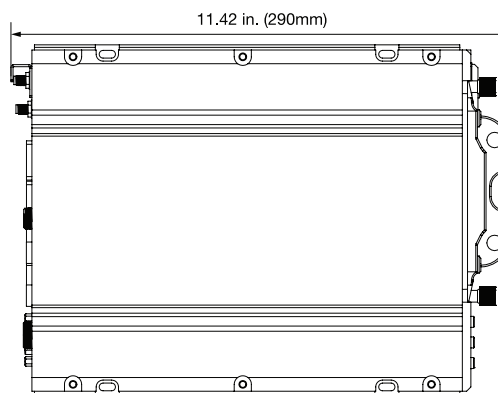
MobileView® Depot Manager

Central solution for fleet health and video evidence management
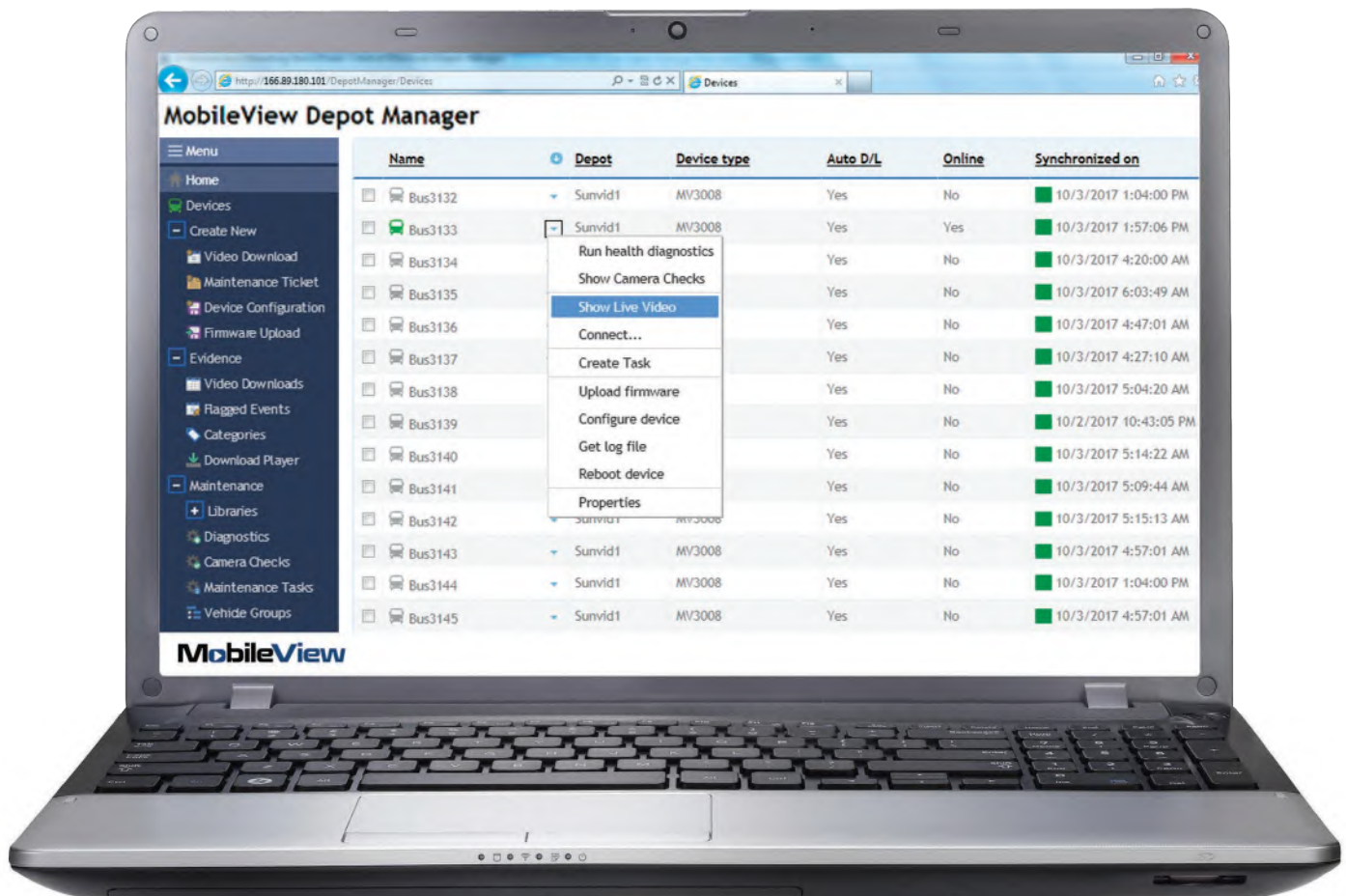
In public transportation, information is everything.

- 🔒 Secure Access
- 📡 Comprehensive Monitoring
- 📄 Video File Management
- 🍴 Fleet Health Diagnostics
- ⚙ Maintenance Management
- ▶ Live Video Streaming
- 📈 Reporting & AnalyticsLive Vide

MobileView® Depot Manager represents an advanced software solution built for today's mass transit applications.

The MobileView Depot Manager software provides control of video assets to enhance security, maximize resources and increase vehicle uptime. With a central controller, the system operates seamlessly across multiple depots on small, medium or large corporate networks. Video evidence can be downloaded and archived quickly and easily, all through a wireless network. By downloading specific events without manually removing hard drives, users can reduce manpower requirements, maintain the custody chain and improve fleet operation management. Live video capability further extends functionality of maintenance and emergency personnel to monitor real-time on-board cameras and events.

Built-in features for effective video management

The MobileView® Depot Manager software automates video evidence download and retrieval through the use of a wireless network infrastructure. Save manpower, maintain chain of custody and improve management of fleet operations by downloading specific events without manually removing hard drives.

- Real-time user dashboard displays a snapshot of key performance indicators to increase vehicle uptime
- The Camera Checks feature automatically captures daily reference images ensuring proper operation of on-board vehicle cameras
- Automatically retrieves driver duress and event-based video files with automatic email notifications across a single or multiple depots

- Bulk configuration and system updates reduce system administration and management activity
- Audit trail can track user activity for forensic analysis
- Integrated maintenance features allows users to track vehicle uptime
- Automated reporting system allows management to keep up-to-date without logging in via scheduled emails
- Evidence categories and vehicle groups allow users to sort and find information more quickly
- Active Directory integration for customers who wish to utilize an existing array of accounts on their existing network
- Metadata playback for understanding vehicle-based elements that occur at the time of an incident
- Bookmarking gives users the ability to take notes directly on the video segment, further enhancing the evidence review process
- Integrated GPS mapping for all aspects of live, recorded, and video export processes

---

Wireless Communication Solution

Our wireless solution can integrate with existing corporate infrastructure or we can design, install and support a cost-effective private wireless solution to meet your needs.

Remote Video Access

Live Video From On-board Cameras

Camera

NVR

Field Programming, Configuration and Evidence Playback

MAINTENANCE SHOP DEPOT

Customized Service Contracts to Protect Your Investment

Wireless / Cellular
Communication Cloud

Transit Depot

Rail Facility

Central Office

Depot Manager: Central solution for fleet health & video management
- Secure Access
- Live Video Streaming
- Comprehensive Monitoring
- Fleet Health
- Maintenance Management

Easy Access to Video and Data
- Auto download alarm events
- Queue and prioritize video requests
- Health Check reports problems
- Multiple depots in a single interface

Real time video access to vehicles on the move

MobileView Depot Manager software provides easy access to critical business information when and where it's needed most — making it ideal for busy transit professionals on the go. Through a password-protected, secure web browser, users can view live video from primary or alternate streams, configure and manage devices from a desktop PC or remotely using any Web-enabled device including smartphones and tablets.

A mobile app, MobileView Live, is also available to download from iTunes or Google Play for smartphones and tablets. Ideal for remote monitoring and maintenance of cameras, the mobile app gives security personnel live camera views of up to 16 channels from any wireless connection — anywhere, anytime.

Download on the App Store

GET IT ON Google Play

Minimum Server Hardware Requirements

Hardware Component	Minimum
Operating System	Windows Server 2012
Database	Microsoft SQL 2014
Browser Support	Internet Explorer 9, 10, 11 Google - Chrome 34+
Other	Microsoft .NET Framework 4.0
Processor	Intel Core™ i7 or Xeon 4+ core systems
Memory	16 GB
Hard Drive	500 GB for OS and Database in RAID 1 or 5 2 TB for Video Storage Array RAID 5 or 6
Network	Gigabit

Client Software Requirements

Software	Version
Operating System	Microsoft Windows 7 32-bit Microsoft Windows 7 64-bit Windows 10
Browser	Microsoft - Internet Explorer 9, 10, 11 Google - Chrome 34+
Other	Microsoft .NET Framework 4.0
Processor	Intel Core i5 (i7 Preferred)
Memory	8 GB
Storage	500 GB
Graphics Card	NVIDIA 512MB
Network	Gigabit

Ordering Information

MVSW-DM-VL-01	Single Vehicle License
MVSW-DM-S-CLD	Central Server License
MVSW-DM-S-DEP	Single Remote Depot License
MVSW-DM-S-EVD	Video Evidence Module
MVSW-DM-S-RHM	Remote Health Monitoring Module
MVSW-DM-S-SMA	Software Maintenance Agreement

Mobile Device Support

Apple iPAD®	iOS 8.0 minimum and included Safari® Browser
Windows® Tablet	Windows 10 using Internet Explorer
Android™	OS 4.0 included Google Chrome Browser

Apple, the Apple logo are trademarks of Apple Inc., registered in the U.S. and other countries. iPad is a trademark of Apple Inc. Windows is a registered trademark of Microsoft Corporation in the United States and other countries. Android is a trademark of Google Inc.

Compatible Recorders

MobileView III (legacy)
MobileView 3000 Series
MobileView 7000 Series

MobileView

A Safe Fleet Brand

MobileView® represents some of the most advanced mobile surveillance options for today's public transit systems. MobileView provides a mix of security products, installation, maintenance and support services for all your transit needs.

MobileViewVideo.com

MobileView
A Safe Fleet Brand

MVNS-3200

8- or 16-Port Unmanaged Network Switch

QUICK CONNECT WIRING HARNESS

PoE

PLUG & PLAY

3 year WARRANTY

OVERVIEW

The MobileView® MVNS-3200 is an 8- or 16-port unmanaged switch. The switch provides plug-and-play installation and is ideal for use in mobile environments. Network performance is optimized to support simultaneous transmission of video from up to 16 IP camera sources, each at 1080p resolution and 30 frames per second without frame loss. Dual Gigabit uplink ports ensure plenty of bandwidth is available for the most data intensive applications.

The MVNS-3200 features a solid aluminum chassis with built-in surface-mount flange for added strength during installation, locking connectors for power and interconnect harnessing, integrated cable management bars, and a fanless solid-state design. The switch accepts a wide operating voltage range (9-32VDC depending on model) and provides LED indicators to communicate device status and health diagnostics at a glance. Additionally, a fault relay and power control input allows for remote fault monitoring and On/Off control of the device.

STANDARD FEATURES

• 8- or 16-port models available

• 8-port model user expandable to 16-port

• Fault relay output for remote monitoring

• Wide operating voltage range (9-32VDC depending on model)

• Remote ON/OFF control input

• Dual GB uplink ports

• Front LED status indicators

MVNS-3200

8- or 16-Port Unmanaged Network Switch

Specifications

Ethernet Standards	IEEE802.3i (10BASE-T) IEEE802.3u (100BASE-TX) IEEE802.3ab (1000BASE-T)
Power over Ethernet	IEEE802.3af Class 2 48VDC @ 6W per Port for IP Cameras
Ports	2 x Gigabit Ethernet Ports 8 or 16 10/100Mb/s PoE Ports
Transmission Speed(s)	1000Mb/s, 100Mb/s, 10Mb/s
Switch Technology	Store and Forward
Protocol	CSMA/CD
MAC Address Table Size	8KB
RAM Buffer	1MB
Switch Capacity	**Basic:** 16 Port @ 100Mb/s + 2 Port @ 1Gb/s **Advanced:** 16 IP Cameras @ 1920 x 1080, 30fps, 4096kb/s bitrate
Electrical	
Input Voltage	9 to 32 VDC (8 Port Model) 16 to 32 VDC (16 Port Model)
Minimum Startup	10.8 VDC
Input Current	7.5 Amp Max
Outputs	Fault Relay (Form C: NC/C/NO)
Power Control Input	0-1VDC = OFF / 5-32VDC = ON

Ordering Information

MVNS-3200-8PF	MVNS-3200, Dual GB Uplink, 8-Port PoE, Fast Ethernet, Power Harness and Cable Management Kit
MVNS-3200-8PF-8EPF	MVNS-3200, Dual GB Uplink, 8+8 (16) Port PoE, Fast Ethernet, Power Harness and Cable Management Kit
MVNS-3200-E-8PF	MVNS-3200, Expander Module, 8-Port PoE, Fast Ethernet, Cable Management Bar
MVNS-3200-S1-00	MVNS-3200, Power Harness, 15 inch
MVNS-3200-CM-K2	MVNS-3200, 16-Port Cable Management Kit

Dimensional Diagrams

SAFE **SF** FLEET
Bus & Rail

MobileView
A Safe Fleet Brand
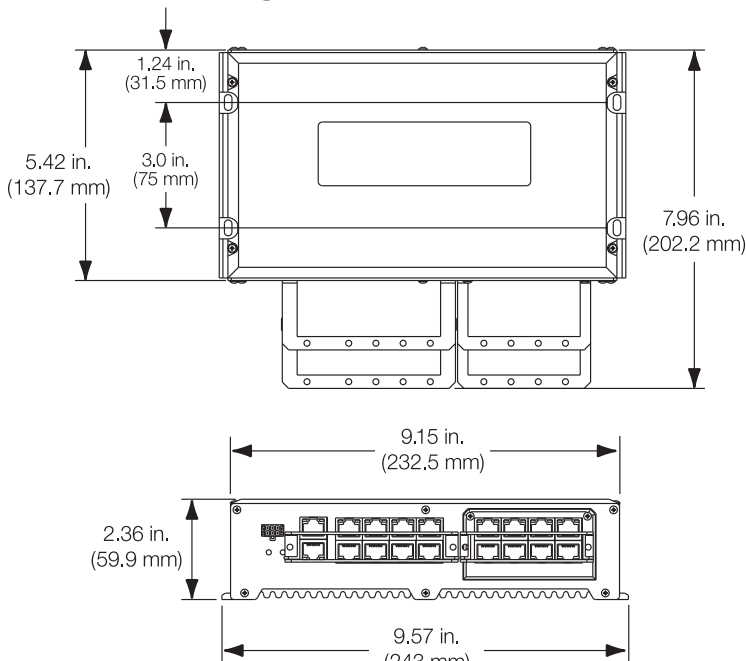
Real-time video access for vehicles on the move

MobileView Live

With MobileView Live, users can access and monitor vehicle cameras using their mobile devices. MobileView Live provides live video from cameras connected to select MobileView recorders. This means greater mobility and security anytime.

Requires Apple iOS 8.0 or higher and Android 4.0 and higher and a secure wireless VPN connection to the vehicle.

Download on the App Store

GET IT ON Google Play

Greater Mobility
Provides portable way for personnel to ensure camera views are accurate and allows first-responders access when emergencies arise.

Secure Access
Password protection provides added security and protects against unauthorized access.

Simple Interface
User-friendly interface makes it easy to capture snapshots and local video recordings plus watch recorded video on the device. All of this can be done on-the-go to quickly and efficiently solve issues without a PC.

View Anywhere
Multiple users can view video simultaneously over cellular or wireless networks.

MobileViewVideo.com

2017-MV-Live-BR-022818

©2018 MobileView

SAFE SF FLEET
Bus & Rail

Rear Vision System

Prevent Costly Rear-backing Collisions

The rear vision system allows a driver to monitor events in difficult to see areas in and around the vehicle in real-time. A programmable multi-view monitor increases safety and can help prevent costly rear-backing collisions.

Rear Vision Monitor

LCD Monitor	
Type	Color LCD TV monitor
Size	7" diagonal (16:9 Aspect Ratio)
Display	TFT Active Matrix System
Resolution	800(H) x 480(V)
Back Light	LED
Power Input	DC 10.5V – 32V
Connection Terminals	(3) Composite Video Inputs, Power Input, (3) Signal Inputs
Operating Temperature	-4 to 158 °F (-20 to 70°C)
Dimensions (H x W x D)	5.25 x 1 x 7 in (133 x 25 x 178mm), excluding sunshade and mounting bracket
Weight	0.9 lbs (0.4 kg)
Ordering	RVM2: monitor and cables, for standalone use, inView 360, or TH4/TH6/HX/NX/TL-HD via Expansion Port (harnesses included) RVM2-SP: monitor and cables, video splitter, for use with Seon DVR's/NVR's without startup delay

RVM2

Rear Vision Cameras

RVC400

CA10

RVC400	
Resolution	620 TV lines
Image Sensor	1/3" CCD w/IR LED
Minimum illumination	0 lux (IR on)
Lens	2.5mm (F2.0)
Environmental Rating	IP69K
View Angle	130°
Operating Temperature	-40 to 158°F (-40 to 70°C)
Ordering	RVC400E75: RVC400 Camera with 75 ft. harness RVC400: Rear Vision Outdoor Camera and bracket, with Mil-Spec connector and Mil-Spec to Micro-Fit Adapter

CA10	
Resolution	700 TV lines
IR	4 LEDs - On/off
Camera Sensitivity	0.061 lux at F2.0 (B&W, D/N), 0 lux (IR on)
Lens	2.9mm (F2.0)
Environmental Rating	IP67
Gimbal	Rotate: 360°, Pan: 7.5°, Tilt: 10~37.5°
Operating Temperature	-40 to 140°F (-40 to 60°C)
Ordering	CA1003EI50: 50' Harness CA1003EI75: 75' Harness CA1003EI100: 100' Harness

1.877.630.SEON
www.seon.com

SEON
A Safe Fleet Brand

TH8

10-Channel High-definition Hybrid DVR

Record up to ten high-definition camera views, while offering the flexibility to support existing standard resolution (analog) cameras.

Get solid image quality plus a few extras to ensure event capture, like DVR Health Check, and geo fencing. HYBRID technology also allows you to upgrade to HD at your own pace while preserving your initial camera investment.

■ Full High-definition Surveillance

Record up to ten high-definition camera views up to 30 FPS per channel with audio.

■ Hybrid Technology

Support your existing cameras while upgrading to HD with your choice of recording resolution from D1 to 1080p.

■ Video Loss Protection

Supercap technology ensures your DVR continues to record even after a sudden power loss during an accident.

■ Dual Media Options

Up to 4TB of on-board storage, increasing video retention capacity.

Compatible Cameras:

Analog:

HD3Q
Interior Dome

HD3W
Outdoor Wedge

HD3U
Ultra Wide

IP Options:

C3Q9
Interior Mini Dome

C3W9
Outdoor Wedge

Accessories:

Event/
Diagnostic
Button

Hard Drive
Dock III

GPS

G-Force
Sensor

Optional Add-ons:

Wi-Fi auto-download & Video management

Live GPS Tracking

Live Video Streaming

1.877.630.7366
www.safefleet.net

SAFE SF FLEET

TH8

10-Channel High-definition Hybrid DVR

Video

Recording Channels	8 channels (HD or Std Res), 2 IP channels, one audio per active video
Video Resolution	Max resolution 1920x1080 (1080p)
Record Stream Rate	Main: 30 FPS max per active channel Second: 5 FPS max per active channel
Quality Settings	Adjustable, 4 levels
Auto Overwrite	Selectable On/Off
Display Modes	1-Up or 9-Up (1-9 Channels) 1-Up or 16-Up (10+ Channels)
Playback Rate	Frame advance, FFD and REV playback up to 32x
Search Function	Segment, alarm, date/time, event
User Interface	OSD on local video out with mouse or vMax Web using web browser
Delay On/Off	Record Delay on ≤ 1 hr Record Delay off ≤ 1 hr Power Delay off ≤ 4 hr
On-Screen Display	Main title, time & date, record status
Dual Streaming	Capable of sending low-bandwidth video images live over an optional broadband (cellular) network

Storage

Primary	Hard Drive
Secondary	SDHC/SDXC Media
Primary Capacity	Removable cartridge supports single or dual drives with capacities up to 4TB (HDD or SSD)
Secondary Capacity	Up to 512GB

Input/Output

Network Interface	5 port Ethernet switch (TCP/IP)
Panic/Alarm Input	20' (6m) harness with panic button
Video Out	1 RCA

Smart Features

Smart Temp™	Keeps DVR within optimal operating temperature
Smart Start™	Safeguards the DVR against electrical spikes with vehicle start-up voltage protection
Inertia Sensor	Optional external G-sensor option

Electrical

Voltage Range	8 to 32 VDC
Transient Protection	600 W for power input, 400 W per signal input
Wiring Harness	20' (6m) harness for power
Configuration Backup	Time & programmed info (retained up to 10 years)

Mechanical/General

Dimensions (HxWxD)	2.8x 11.6x 10.5 in (72 x 294 x 267 mm)
DVR Weight	6.6 lbs (3 kg)

Environmental

Operating Temperature	-30 to 50°C (-22 to 122°F)

Approvals

Emissions	FCC (Title 47, Part 15, 47 CFR 15)
Vibration	Vibration Tested against SAE-1455 and MIL-STD 810G

Specifications - Plus System

Signals	5 external signal inputs + 5 internal signals
Video Alarms	4 internal alarms linked to signals, alarm inputs, or other internal triggers
Event/Diagnostic Button	An indicator panel that marks events for quick searches and displays video system status
GPS Ready	Records vehicle speed and location with optional GPS receiver; enables synchronized mapping when used with compatible software
Geo-Fencing	Uses GPS technology to set a geographical boundary for a vehicle; receive an alert if it deviates
SuperCaps	Protects against video loss in case of a sudden power disruption such as during an accident
Communication	Optional external Wi-Fi

1017-TH8-SS-ST-011119

1.877.630.7366
www.safefleet.net

SAFE FLEET

Easily view & archive video — protecting student and driver privacy

This easy-to-use software simplifies the viewing, archiving, and retrieval of video, and allows for easy searching by video clip, alarm, date and time, or even GPS location. Get key details about on-board incidents or pinpoint the exact time and location a passenger exited the bus.

Create archives for video evidence while maintaining the privacy of passengers and drivers with our innovative blurring feature. School bus security is made easy with vMax View software.

Key Benefits

Easily View and Archive Video

Quickly locate the on-board incident and easily create a video clip for evidence. It's as easy as Point-Click-Save.

See What Really Happened — and When

Video synchronized with vehicle telemetry data, such as GPS location, vehicle speed, turn signals, and braking, in one software interface.

Protect Passenger and Driver Privacy

The innovative SmartBlur feature blurs faces across an entire video clip to protect the privacy of innocent bystanders.

Key Features

Multiple Views

View 1, 4, 6, 9 or more video channels simultaneously.

Simple Video Navigation

Easy-to-use play, forward & rewind buttons, and timeline with zoom and scroll.

Map Vehicle Path and Speed

Display exact vehicle location and speed synchronized with video playback. Requires Internet connection.
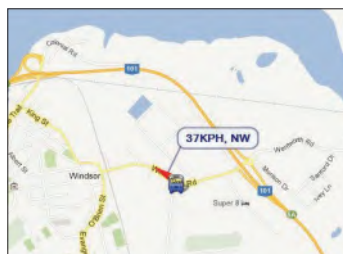
Event/Alarm/Telemetry Search

Search video by alarms, speed, GPS location, hard braking, or date/time.

Archiving Options

Archive multiple camera views in proprietary .avr or readily available .avi formats.

Timeline Navigation

Easily navigate video by clicking on the timeline to jump to a specific event or time.

Second Stream Playback

Play back a second stream of video within the playback software.

A Safe Fleet Brand

SmartBlur Feature

Blur faces of innocent passengers throughout the video to protect privacy.

GPS Advanced Search

Find relevant video easier than ever. Click on the GPS track to view video from a specific location on your route.

Digital Zoom

Zero in on key details in the video, such as faces or license plate numbers, for more in-depth analysis and review.

1.877.630.SEON www.**seon**.com

Wireless Access via WiFi

Fast, Easy & Secure Access to Mobile Video

Now there are two convenient options for wireless access to on-board video surveillance. Smart-Reach WiFi gives you the ability to download surveillance video automatically over a WiFi network when the bus arrives in the yard, making video surveillance retrieval virtually hassle-free. Smart-Reach Cellular lets you access live video from anywhere, using a mobile device or web browser, so you can quickly and more effectively respond to emergency situations.

Automatic WiFi Video Downloading

Working in combination with vMax Commander surveillance management software, Smart-Reach WiFi provides a robust wireless infrastructure for automated video downloading.

Secure, Industrial-grade WiFi

A truly robust wireless solution built for mobile applications.

Reliable Video Downloading

Sufficient strength, signal and bandwidth for efficient and reliable video downloading.

Equipment

Smart-Reach Lite Mobile Wireless Bridge

This mobile wireless bridge allows you to connect to Seon's family of DVRs and retrieve data over a wireless LAN with simplicity and security.

Smart-Reach Access Point

This industrial-grade wireless access point delivers scalable and seamless wireless access when and where you need it.

Smart-Reach® WiFi Product Sheet

1.877.630.SEON www.seon.com

Video & Data Management Software

Scalable, multi-site, multi-user enterprise management software

vMax Commander lets you efficiently manage all of your on-board video surveillance systems through a single web-based application. A convenient, user-friendly dashboard gives you an at-a-glance view of all of your video-related activities including alarms, video downloads, system health status, and connected vehicles.

When combined with Smart-Reach, video with marked events can be automatically downloaded from a bus as it enters the yard and is ready for viewing from a central location — eliminating the hassle and labor involved in retrieving video footage.

Key Benefits

Hassle-free Video Retrieval

Eliminate hard drive handling costs and free up labor resources with automatic video downloading.

Monitor Video System Health

Monitor the status of your on-board video systems in a convenient at-a-glance dashboard of video health status, downloads and alarms.

Web-based Video Management

Now you can manage your video surveillance system from anywhere with no software to download or devices to configure.

Quick & Easy Video Location

Find critical video evidence in seconds with geographic and zone-based map search.

SEON
A Safe Fleet Brand

vMax® Commander Product Sheet

Advanced Reporting

Web-based access to user accounts and system health reports. Control access to critical video by restricting and assigning permissions.

View GPS Tracks

View the GPS tracks of up to 5 buses on a map, with detail in 2 second intervals, without having to download video — ideal for route adherence or incident investigation.

Web-based Archive Manager

Easily locate, review, and manage your downloaded video archives via a convenient web interface.

Advanced DVR Health Status

Monitor and report on camera system health right down to individual camera loss.

Map-based Video Search

Don't know the time of an incident? Simply select an area on the map where the incident occurred, and the system will automatically locate any available video from that date and location.

Stream Live Video

Put yourself in the driver's seat of any vehicle in your fleet in an emergency. Live video streaming lets you connect to a Seon video surveillance system in real-time, via a secure cellular network connection, to view video and audio from any installed bus camera.

vMax STREAM

MONITOR ON-BOARD ACTIVITY FROM ANYWHERE

Whether you are in the office or on the road, you can access live camera footage from any Internet-connected device to assess and respond to emergency situations in seconds.

MAXIMIZE ACCESS, MINIMIZE DATA CHARGES

Our unique video streaming server technology minimizes cellular data usage charges while maximizing the number of users that can access on-board footage at the same time.

SECURE, PASSWORD-PROTECTED VIDEO FEED

A highly secure Virtual Private Network (VPN) connection is established between the Seon DVR and the video streaming server to prevent unauthorized access to sensitive video.
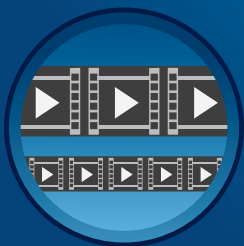
UNIQUE DUAL-STREAMING TECHNOLOGY

You never have to sacrifice the quality of your recorded video for the privilege of streaming it live. A second low-res video stream suitable for cellular networks is used for live streaming.

Additional Equipment Required

Live Streaming: How it Works

Seon's live video streaming service is carefully architected to offer both security and accessibility, while managing coverage issues and unpredictable data rates typical of cellular networks.
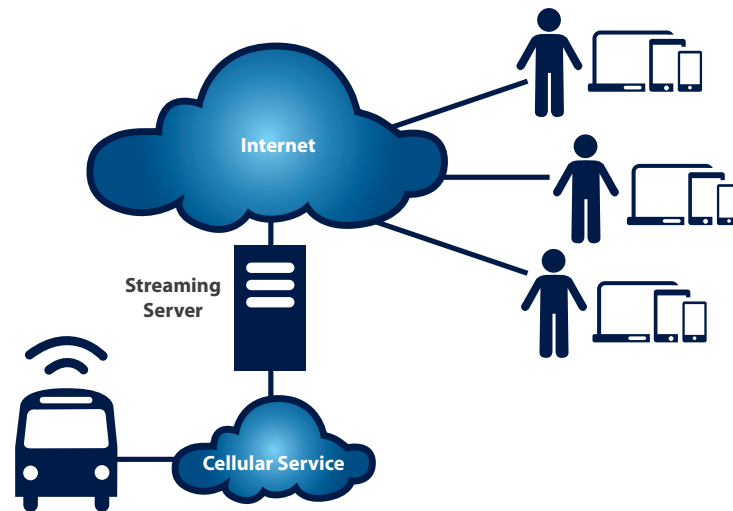
1. SECURE CELLULAR CONNECTION IS ESTABLISHED

The Smart-Reach Cellular router establishes a secure, VPN connection over the cellular network between the Seon DVR and the video streaming server.
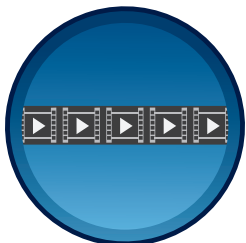
2. LOW-RES VIDEO STREAM IS TRANSMITTED

A low-res video stream, designed for remote viewing over cellular, is transmitted from the Seon DVR to the video streaming server and accessible in your web-based live viewing application.

3. ACCESS VIDEO AND AUDIO IN REAL-TIME

Multiple users on any Internet-connect device can select the bus they want to access, the camera view they want to see, and the microphone they want to access for audio.

GPS Receiver

GPS-MDL with Integrated Magnetic Base

A Global Positioning System (GPS) puts an impressive amount of information at your fingertips, including vehicle location, speed, and time data. You can also view this information synchronized with mapping software Safe Fleet Evidence Manager.

■ Key Features and Benefits

The Safe Fleet GPS-MDL is a receiver with an integrated magnetic base. The receiver is 1.4 x 1.7 x 0.7 inches and weighs just a few ounces for easy installation inside a vehicle.

Utilizing data from the GPS Receiver, Safe Fleet Evidence Manager displays the precise location of a bus on a map, including the street name and other critical information, while simultaneously providing video footage.

■ GPS Receiver Part Numbers

GPS4.....................GPS Receiver with Integrated Magnetic Base and 20ft Harness

GPS4-CBL...........20ft Harness for GPS Receiver

Receiver Performance Data	
Receiver Type	L1 frequency band, 48 search channels
Accuracy	Position :2.5 CEP Velocity: 0.1 m/s Timing (PPS): 500ns RMS
Acquisition Time	Cold Start: 35s Warm Start: 35s Hot Start: 1s Re-Acquisition: <1s
Operational Limits	Altitude: Max 18.288m Velocity: Max 514m/s Acceleration: <4G
Sensitivity	Tracking: -163 dBm Acquisition: -160 dBm (hot) -148 dBM (cold)
Navigation Data Update Rate	1Hz
Protocol Support	NMEA 0183, 9,600 bps, 8, N, 1
Electrical Data	
Power Supply	3.3 to 5.0 VDC
Power Consumption	Tracking: 39mA @3.3V Vcc Acquisition: 36mA
Environmental Data	
Operating Temperature	-40 to 185ºF (-40 to 85ºC)
Storage Temperature	-40 to 257ºF (-40 to 125ºC)
Humidity	95% (max)
Waterproof	IP67
Other Data	
Pigtail Cable	3.28' (1m)
Dimensions (W x H x D)	1.4 x 1.7 x 0.7" (36 x 43 x 17 mm)

1.877.630.7366
www.safefleet.net

SAFE FLEET

Inertia (G-Force) Sensor

External Inertia Sensor for TH Series DVRs

The inertia sensor measures changes in vehicle acceleration, deceleration, and lateral motion to add valuable vehicle handling information to your video evidence - essential for incident investigations.

Works with the TH Series DVRs

■ **Identify risky driving**

Rapid changes in vehicle acceleration will identify risky driving practices.

■ **Trigger Event Marking and Downloads**

Calibrate your inertia sensor to trigger automated downloads or mark video in viewing pane.

■ **Improve Incident Response Times**

View vehicle handling data synchronized with video and audio data for better incident investigation.

Mechanical	
Enclosure Material	PC-ABS
Dimensions (L x W x H)	4.4 x 1.8 x 1.0 inches (113mm x 46mm x 24mm)
Weight	0.14 lbs (64 grams)
Electrical	
Power consumption	75mW (15mA @ 5VDC)
Voltage Range	5V+/-10%
Power Indicator	Green LED
Transient Protection	400W
Interface	Extended I2C
Maximum Harness Length	5 feet
Environmental	
Environmental rating	IP41
Operational Temperature	-22°F ~ 149°F (-30° ~ 65°)
Storage Temperature	-40°F ~ 185°F (-40° ~ 85°)

1044-Inertia-sensor-SS-ST-101218

1.877.630.SEON
www.seon.com

SEON
A Safe Fleet Brand

Rear Vision System

Prevent Costly Rear-backing Collisions

The rear vision system allows a driver to monitor events in difficult to see areas in and around the vehicle in real-time. A programmable multi-view monitor increases safety and can help prevent costly rear-backing collisions.

Rear Vision Monitor

LCD Monitor	
Type	Color LCD TV monitor
Size	7" diagonal (16:9 Aspect Ratio)
Display	TFT Active Matrix System
Resolution	800(H) x 480(V)
Back Light	LED
Power Input	DC 10.5V – 32V
Connection Terminals	(3) Composite Video Inputs, Power Input, (3) Signal Inputs
Operating Temperature	-4 to 158 °F (-20 to 70°C)
Dimensions (H x W x D)	5.25 x 1 x 7 in (133 x 25 x 178mm), excluding sunshade and mounting bracket
Weight	0.9 lbs (0.4 kg)
Ordering	RVM2: monitor and cables, for standalone use, inView 360, or TH4/TH6/HX/NX/TL-HD via Expansion Port (harnesses included) RVM2-SP: monitor and cables, video splitter, for use with Seon DVR's/NVR's without startup delay

RVM2

Rear Vision Cameras

RVC400

CA10

RVC400	
Resolution	620 TV lines
Image Sensor	1/3" CCD w/IR LED
Minimum illumination	0 lux (IR on)
Lens	2.5mm (F2.0)
Environmental Rating	IP69K
View Angle	130°
Operating Temperature	-40 to 158°F (-40 to 70°C)
Ordering	RVC400E75: RVC400 Camera with 75 ft. harness RVC400: Rear Vision Outdoor Camera and bracket, with Mil-Spec connector and Mil-Spec to Micro-Fit Adapter

CA10	
Resolution	700 TV lines
IR	4 LEDs - On/off
Camera Sensitivity	0.061 lux at F2.0 (B&W, D/N), 0 lux (IR on)
Lens	2.9mm (F2.0)
Environmental Rating	IP67
Gimbal	Rotate: 360°, Pan: 7.5°, Tilt: 10~37.5°
Operating Temperature	-40 to 140°F (-40 to 60°C)
Ordering	CA1003EI50: 50' Harness CA1003EI75: 75' Harness CA1003EI100: 100' Harness

1.877.630.SEON
www.seon.com

SEON
A Safe Fleet Brand

Cost Proposal

This page is intentionally blank

PRICE QUOTE

Proposer ___Safe Fleet Bus & Rail - MobileView_____

Total Cost for 26 DVRs	$__89,730_____
Optional Disposal/Recycling Cost of DVRs	$___1,040_____
Lifetime Technical Support Cost Per Year	$___No Additional Cost_____
Warranty Cost Per Year NOTE: Initial Warranty covers 3 full years at no cost	$___10,270_____
Estimated Project Start Date	___September 30, 2019_____
Estimated Project Completion Date	___October 11, 2019_____

Cost for 26 DVRs listed above includes removal of existing equipment and installation of new DVR, plus costs associated with on-site configuration and testing of existing cellular modems to support wireless download capability and live streaming.

A formal breakdown of costs is attached as a supplement to this Price Sheet. Requests for clarification can be directed to Steve Mentzer at (406) 273-8193.

Please note that the project should last no longer than two weeks depending upon bus availability.

An optional Rear View Monitor can be added at a unit cost of $215 per bus for a total cost of $5,590.

Topeka Metro is tax exempt and will obtain a Project Exemption Certificate from the Kansas Department of Revenue. Do not include sales tax in your proposed price.

PREPARED FOR:
Richard Appelhanz   (785) 730-8621
Accountant   rappelhanz@topekametro.org

PREPARED BY:
Steven Mentzer
Sales Executive - Transit North

Corporate Office: 1.877.630.7366
Unit 111, 3B Burbidge Street
Coquitlam, BC V3K 7B2
smentzer@safefleet.net

SOLD TO DETAIL
Topeka Metropolitan Transit Authority
201 N. Kansas Ave.
Topeka, Kansas
66603

BILLING DETAILS
Topeka Metropolitan Transit Authority
201 N. Kansas Ave.
Topeka, Kansas
66603

SHIPPING DETAILS
Topeka Metropolitan Transit Authority
201 N. Kansas Ave.
Topeka, Kansas 66603
United States

Configuration 1

DVR & Cameras

Qty	Description	Unit Price	Qty Price
26	**MVN-7300H-F1-K1** 7001H, 16 CH HYBRID NVR, HARNESS, CONNECTION KIT Previous Discount Presented in 2018	$1,753.75	$45,597.50
26	**MVN-1002-K2-433** 7000 SERIES 4TB MEDIA KIT (GEN III CADDY & 2TB HDD + 2TB HDD MEDIA), USB 3.0	$746.25	$19,402.50
26	**MSS-4008-00-00** MobileView Panic Button/Status LED Module Buttons may not be needed on all vehicles.	$76.50	$1,989.00

Accessories

Qty	Description	Unit Price	Qty Price
1	**MVSW-DM-S-CLD** Depot Manager - Central Server License (one-time fee) Approved discount applied. Metro prefers a virtual server.	4995.00	$4,995.00

Professional Services

Qty	Description	Unit Price	Qty Price
2	**MV-PRS-ENGSITE** On Site Engineering Service Per Day Configure and test wireless connectivity and live look ins	$1,000.00	$2,000.00
1	**MV-PRS-TRAIN** Video Management Software On Site Training Per Day	$1,500.00	$1,500.00
2	**MV-PRS-TRVL** Engineering Services Travel Days To/From Site	$1,000.00	$2,000.00
26	**MV-INST-SYSRMVL** Removal of Existing System Reuse/recycle old MV4000 components	$40.00	$1,040.00
26	**MV-INST-TRCAMSYS** Installation of 7000/7001H NVR with GPS and Signals	$425.00	$11,050.00

Freight

Qty	Description	Unit Price	Qty Price
26	**MV-FRGT-7000-8-EG** Freight,Ground,CE,7000 NVR,8 Camera System Ground Freight - DVRs, adapters, wireless card, cellular router	$46.00	$1,196.00

Configuration 1 Total:	**$ 90,770.00 USD**

Grand Total:	**$ 90,770.00 USD**

An optional rear view monitor that will present the camera feed showing conditions as they exist rearward of the bus can be purchased for a unit cost of $215 per bus. The total cost for 26 vehicles will therefore be $5,590 to add rear view monitors to each Metro bus.

All purchases <u>must</u> be confirmed with an authorized signature from the purchaser; company issued purchase orders should be provided for all purchases exceeding $10,000.00 (in addition to authorized proposal). Any purchases that are exempt from sales taxes must be accompanied by a tax exemption and/or resellers certificate.

By signing below I confirm that I have read and understand the provided proposal and that all information, including billing and shipping details is correct.

PO# _____ **Date:** _____

Name: _____ **Title:** _____

Signature: _____

Comments: _____

Seon Comments & Terms:

Proposed installation prices are based on <u>all</u> vehicles being present and available, in a single location, at the time of scheduled installation. Any offsite installation work or the requirement to return to the site at a later date are subject to additional fees including labor and associated travel costs.

The initial warranty covers a period of three years. The warranty can be extended for two additional years at a unit cost of $395 per bus. This would cost $10,270 annually to cover the full fleet during years 4 and 5 of ownership.

This quote is valid through 2019 & payment terms Net 30. All sales are final. A restocking fee of 20% will apply for any product returns and/or exchanges requested after initial shipment of the product. Note that product returns and/or exchanges will only be accepted for new, unused product that is within the original, unopened packaging.

Thank you for the opportunity to provide a Proposal for your mobile surveillance and fleet management needs. We trust this customized solution will help you meet your goals for passenger and driver safety and security.

Please feel free to contact me directly at 1.406.273.8139 if you have any questions or concerns. We look forward to partnering with you.

Best regards, **Steven Mentzer**
Sales Executive - Transit North 1.406.273.8139 | smentzer@safefleet.net

<u>PRICE QUOTE</u>

Proposer ___Safe Fleet Bus & Rail - Seon_____

Total Cost for 26 DVRs $__71,742_____

Optional Disposal/Recycling Cost of DVRs $___1,040_____

Lifetime Technical Support Cost Per Year $___No Additional Cost_____

Warranty Cost Per Year $___3,640_____
NOTE: Initial Warranty covers 3 full years at no cost

Estimated Project Start Date   ___September 30, 2019_____

Estimated Project Completion Date   ___October 11, 2019_____

Cost for 26 DVRs listed above includes removal of existing equipment and installation of new DVR, plus costs associated with on-site configuration and testing of existing cellular modems to support wireless download capability and live streaming.

A formal breakdown of costs is attached as a supplement to this Price Sheet. Requests for clarification can be directed to Steve Mentzer at (406) 273-8193.

Please note that the project should last no longer than two weeks depending upon bus availability.

An optional Rear View Monitor can be added at a unit cost of $215 per bus for a total cost of $5,590.

Topeka Metro is tax exempt and will obtain a Project Exemption Certificate from the Kansas Department of Revenue. Do not include sales tax in your proposed price.

PREPARED FOR:

Richard Appelhanz
Accountant

(785) 730-8621
rappelhanz@topekametro.org

PREPARED BY:
Steven Mentzer
Sales Executive - Transit North

SOLD TO DETAIL	BILLING DETAILS	SHIPPING DETAILS	
Topeka Metropolitan Transit Authority	Topeka Metropolitan Transit Authority	Topeka Metropolitan Transit Authority	Corporate Office: 1.877.630.7366
201 N. Kansas Ave.	201 N. Kansas Ave.	201 N. Kansas Ave.	Unit 111, 3B Burbidge Street
Topeka, Kansas 66603	Topeka, Kansas	Topeka, Kansas 66603	Coquitlam, BC V3K 7B2
	66603	United States	smentzer@safefleet.net

Configuration 1

DVR & Cameras

Qty	Description	Unit Price	Qty Price
26	**TH8H2T0-2HDD** TH8 DVR, 8 HD Channels, 2 IP Channels, Audio, Security Front Cover with Lock Set, Mounting Bracket, Power Harness, 2TB (2X1TB) Dual HDD Existing Customer Discount Applied	$1,195.00	$31,070.00

Live Streaming

Qty	Description	Unit Price	Qty Price
1	**LVST-FLEET** Live Streaming VPN and fleet setup, 100 users including 1 admin (no existing Commander fleet)	$2,950.00	$2,950.00
26	**LVST-ACT** Live Video Streaming Service, Activation, per vehicle, no data (includes service up to 1 year - until anniversary date)	$36.00	$936.00

Accessories

Qty	Description	Unit Price	Qty Price
52	**TH8POEKIT48** ASSY,POE Kit,48V POE injector required for exterior IP cameras (MVC-9000-40-WI)	150.00	$7,800.00
124	**MSS-4030-01-SCA** MobileView 1x3 Molex Female, 1x2 Molex Male, and BNC Female to SEON 2x3 Micro-Fit Male Adapter. For applications where using a SEON SD Camera with a MobileView Recorder and MobileView Harness. (Lead time is 2 weeks) Adapter for use with interior MV cameras	24.00	$2,976.00
26	**G-SENSOR-EXT** G-Sensor, module and cable kit - to be used with TH4,TH6, and TH8 DVRs.	81.00	$2,106.00

Software License

Qty	Description	Unit Price	Qty Price
1	**VMC5B** vMax Commander 5.0: web-based wireless and automatic video management software to monitor video system health, automatically download video alarms, search video by time and location, and display historical GPS tracks of the vehicles in the fleet. Includes 100 user licenses (including 1 Admin). Customer Discount Applied	$3,000.00	$3,000.00
26	**VMC5V** vMax Commander 5.0: Vehicle Activation (per vehicle) Competitive Discount Customer Discount Applied	$333.00	$8,658.00

Professional Services

Qty	Description	Unit Price	Qty Price
26	**INST-SYSRMVL**	$40.00	$1,040.00
	Removal of Existing System		
	Remove/Recycle existing MV4000 units		
26	**INST-TRCAMSYS**	$425.00	$11,050.00
	Installation TX/DX/TH/NX DVR with GPS and Signals		

Freight

Qty	Description	Unit Price	Qty Price
26	**FRGT-TH8-EG**	$46.00	$1,196.00
	Freight,FedEx Ground,CE,TH8 System		

Configuration 1 Total: **$ 72,782.00 USD**

Grand Total: **$ 72,782.00 USD**

An optional rear view monitor that will present the camera feed showing conditions as they exist rearward of the bus can be purchased for a unit cost of $215 per bus. The total cost for 26 vehicles will therefore be $5,590 to add rear view monitors to each Metro bus.

All purchases <u>must</u> be confirmed with an authorized signature from the purchaser; company issued purchase orders should be provided for all purchases exceeding $10,000.00 (in addition to authorized proposal). Any purchases that are exempt from sales taxes must be accompanied by a tax exemption and/or resellers certificate.

By signing below I confirm that I have read and understand the provided proposal and that all information, including billing and shipping details is correct.

PO# _____   **Date:** _____

Name: _____   **Title:** _____

Signature: _____

Comments: _____

Seon Comments & Terms:

Proposed installation prices are based on <u>all</u> vehicles being present and available, in a single location, at the time of scheduled installation. Any offsite installation work or the requirement to return to the site at a later date are subject to additional fees including labor and associated travel costs.

The initial warranty covers a period of three years. The warranty can be extended for two additional years at a unit cost of $140 per bus. This would cost $3,640 annually to cover the full fleet during years 4 and 5 of ownership.

<u>Seon cloud-based services, metadata retention duration: Transit systems</u>
Metadata for Seon's vMax Commander and vMax Live Plus cloud-based services (standard service), is maintained for 6 months and then permanently deleted from the Seon cloud servers.
Metadata refers to all records created, input, or collected through the cloud-based service and stored on our cloud servers, excluding Media Files as described below:
<u>Metadata includes</u>

- Data created, input, logged or collected through the cloud-based service related to the fleet, vehicle location, or vehicle speed, and operational data related to alarms.
- Equipment health check information

<u>Metadata does NOT include</u>

- User names and passwords
- Media Files **– any audio, video, or photo data that is** created, input, or collected through use of the Software service
- Any fleet set-up data entered by users such as bus IDs, route IDs, driver IDs, vehicle types

This quote is valid for up to 60 days & payment terms Net 30. All sales are final. A restocking fee of 20% will apply for any product returns and/or exchanges requested after initial shipment of the product. Note that product returns and/or exchanges will only be accepted for new, unused product that is within the original, unopened packaging.

Thank you for the opportunity to provide a Proposal for your mobile surveillance and fleet management needs. We trust this customized solution will help you meet your goals for passenger and driver safety and security.

Please feel free to contact me directly at 1.406.273.8139 if you have any questions or concerns. We look forward to partnering with you.

Best regards, **Steven Mentzer**
Sales Executive - Transit North 1.406.273.8139 | smentzer@safefleet.net

Technical and Sales Support

Safe Fleet Bus & Rail - Seon is known for its outstanding sales support and customer service, client education and engineering expertise. Out team understands the unique requirements of every transportation system and can easily help you customize a solution to suit your special needs.

We are confident in the reliability and quality of our products and we ensure your project is always completed to the high standards our reputation is built on.

Should Topeka Metro partner with Safe Fleet Bus & Rail - Seon, our experts are available on-demand to handle every aspect of the sales, installation, and support process.

Sales Support

Right from your first contact with Safe Fleet Bus & Rail - Seon, you'll see a big difference in our approach. Support is more than pricing, sales, and installation. Support is about sharing our expertise to give you the very best advice and solution. Our sales associates are here to help you identify the right products for your needs and your budget.

Safe Fleet Bus & Rail - Seon's representatives will help you build your unique video surveillance system with minimal expenses and maximum functionality. If you would like to upgrade to a newer version of our products later, your sales associate will be there for you to recommend the best solution.

If you require a demonstration of the product, Safe Fleet Bus & Rail - Seon's representative will provide you with the opportunity to test the system.

Support is also about being available after the sale. At Safe Fleet Bus & Rail - Seon, knowledgeable service is never more than a phone call away. A friendly voice is always at the other end of the line, ready to respond to your every need.

If a product must be replaced or repaired, we will immediately ship you the required equipment to ensure the best experience of using our products. For your staff, we offer a toll-free telephone number that can be used to contact us for solving your problem.

Technical Support

Safe Fleet Bus & Rail's technical support team provides award-winning service via a highly specialized network that includes self-service online tools, global service providers, and an outstanding call center.

We have a free support line for our customers (tel.: 1.844.899.7366), where dedicated employees of the company, experts in mobile surveillance and Safe Fleet Bus & Rail products, will help you diagnose and resolve the issues of your business. Whether you contact our staff to inquire about warranty or out-of-warranty products, you'll get a competent answer from our trained personnel, not a call taker based in an overseas call center. Our goal is to give our customers the best assistance and advice possible.

We can guide you step-by-step through how to install, fix, or operate our software. If your problem can not be solved by phone, with your permission, our tech support staff can access your computer remotely to fix the issue.

"Along with superior camera systems, Seon also provides excellent customer service. The support team is just a phone call away, and their sales reps always make sure our needs are met. Our experience with Seon has been nothing less than satisfying."

-Kenneth Morosko
Transportation Director

On-line Resources

To help you resolve your issues faster, whether it is a basic software set-up or a more complex problem, we use efficient web-based tools, such as GoToAssist and GoToMeeting. The Safe Fleet Bus & Rail team also employs GoToMeeting to assist our sales representatives with training and webinars.

For your convenience, we publish the latest versions of our products on the Safe Fleet Bus & Rail web site with the overview of solutions that we offer, as well as detailed specifications.

To make your experience using Safe Fleet Bus & Rail systems pleasant and trouble-free, we hold training webinars on a regular basis. Additional video materials with instructions on installation and troubleshooting are published on our customer support site.

We pride ourselves on our customer support. While all repair and in-house technicians handle service work, all service records are logged and summarized for analysis. Service record analysis enables us to efficiently identify any common system issue(s) or reasons for failure, and then quickly correct these potential obstacles.

"I choose Seon above others because I am so pleased with the customer service this company provides to us. Everyone I have worked with over the past several years (sales, the service department, and install) really represent Seon well. My needs are always met as the customer. Thank you for the services you provide."

-Kim McAbee
Transportation Supervisor

Feature	Technical Support
Hours of Operation[1]	24 hours per day 7 days/week 365 days/year
Software Updates[2]	Yes
Products Supported	Seon and MobileView
Method of Access	1-844-899-7366 service@seon.com
Response Method	Telephone/Email
Remote Support	Yes
Access to Safe Fleet Bus & Rail Community and other Knowledge Tools	Yes
Target Response Times	
Critical (Severity 1)	**4 hours or less: 24/7**
Major (Severity 2)	4 business hours
Minor (Severity 3)	8 business hours
Business Hours North America	Eastern Time Zone: 6:00 - 19:00

1) Hours of Operation for SFBR products are Monday - Friday 6:00 - 19:00 EST. Severity 1 and 2 issues are responded to after hours 24x7 through contact with your SFBR representative
2) Software updates will be scheduled for normal business hours unless deemed necessary by SFBR support personnel.

Customer Testimonials

"The two most important reasons I would recommend Seon's camera system and wireless solution is for time savings, and peace-of-mind. I wouldn't feel as confident as I do without Seon's products. I can't stress enough how strongly I feel about this for all transportation directors. It's a no brainer."
Dan Lanham | Director of Transportation, Green River Intra-County Transit System

"It's a huge deterrent when you have these cameras on your buses and in your facilities. There are more than 1,200 cameras monitoring transit users and there has been a reduction in serious incidents since they were installed."
Doug Mosher | Transit Security Manager, Halifax Metro

"Seon has such exceptional customer service. If I ever have questions or need anything I have support. Whenever I have had to call into service, the team was helpful and efficient."
Robert Lockman, Risk Manager at the Transit Authority of Northern Kentucky

"The visible presence of security cameras on board buses has directly contributed to a positive sense of security amongst BC Transit's ridership. Along with the success in prosecutions and liability case decisions during the last 12 months, the program expansion is inevitable!"
Stephen Anderson, Manager of Corporate Safety, Security and Transit Supervision, BC Transit

Product Warranty

Safe Fleet Bus & Rail proposed system includes a standard 3 year parts and repair labor warranty for the DVR, cameras and all storage media excluding SD cards (1 year). The inView 360 Around Vehicle Monitoring Systems (including cameras, ECU and wiring) has a 2 year warranty and all other products and system equipment including accessories are subject to a 1 year parts and repair labor warranty.

Safe Fleet Bus & Rail has provided for OPTIONAL extended warranty on both proposed solutions for years 4 and 5. Please reference the Cost Proposal section of this response for additional details.

The warranty period begins from the date of acceptance following installation by Safe Fleet Bus & Rail - authorized staff or contractor.

Safe Fleet Bus & Rail manages all product issues through a return to vendor policy or "return merchandise authorization (RMA)" process whereby if a client experiences an issue with a Safe Fleet Bus & Rail product or accessory during the warranty period, the client will be responsible for the return of the product or accessory to Safe Fleet Bus & Rail so that Safe Fleet Bus & Rail can determine if the product is defective and subject to warranty coverage.

The RMA process includes an "Advance Replacement" procedure for issues that occur within 60 days of the date of acceptance and a "Repair Return" procedure for issues that occur post 60 days from the date of acceptance.

Advance Replacement - Within 60 days of Date of Acceptance

Advance Replacement is the process whereby if the client experiences a product failure in the first 60 days after the Date of Acceptance, upon confirmation and authorization from Safe Fleet Bus & Rail, a replacement component will be shipped to the client at Safe Fleet Bus & Rail's expense. The client is then responsible for shipping the faulty product back to Safe Fleet Bus & Rail. The client is billed for the Advance Replacement but is not invoiced for 60 days. If the faulty product is not returned, the client will be invoiced. Removal and replacement of product is the client's responsibility and is not covered under warranty and any product deemed damaged by the client (after examination by Safe Fleet Bus & Rail) will be chargeable to the client.

Repair and Returns - Outside 60 Days of Date of Acceptance

After 60 days, if the client finds they have faulty equipment, the client can ship the equipment to Safe Fleet Bus & Rail for warranty service at the client's expense. The product will be evaluated and if the issue is covered under warranty, Safe Fleet Bus & Rail will ship either a replacement product or the product will be repaired and sent back to the client. The product will be returned to the client via the same method/service that the client shipped the product to Safe Fleet Bus & Rail. If the product is not covered under warranty, a repair estimate will be sent to the client for approval. Product deemed damaged by the client will be chargeable.

All warranty repairs, replacement and other associated work for US based clients is performed by Safe Fleet Bus & Rail in Charlotte, North Carolina and the work performed for Canadian clients is done at our head office in Coquitlam, British Columbia.

For complete details on Seon's product warranty, please refer to the Safe Fleet Bus & Rail - Seon Design Inc. Product Warranty wording beginning on the following page.

33

Safe Fleet Bus & Rail – Seon Product Warranty

Safe Fleet Bus & Rail – Seon's proposed system includes a standard 3 year parts and repair labor warranty for the DVR, cameras and all storage media excluding SD cards (1 year). The inView 360 Around Vehicle Monitoring Systems (including cameras, ECU and wiring) has a 2 year warranty and all other products and system equipment including accessories are subject to a 1 year parts and repair labor warranty.

Extended warranties for certain products are available up to 5 years at an additional cost.

The warranty period begins from the date of acceptance following installation by Safe Fleet Bus & Rail - Seon authorized staff or contractor.

Safe Fleet Bus & Rail - Seon manages all product issues through a return to vendor policy or "return merchandise authorization (RMA)" process whereby if a client experiences an issue with a Safe Fleet Bus & Rail - Seon product or accessory during the warranty period, the client will be responsible for the return of the product or accessory to Safe Fleet Bus & Rail - Seon so that Safe Fleet Bus & Rail - Seon can determine if the product is defective and subject to warranty coverage.

The RMA process includes an "Advance Replacement" procedure for issues that occur within 60 days of the date of acceptance and a "Repair Return" procedure for issues that occur post 60 days from the date of acceptance.

Advance Replacement - Within 60 days of Date of Acceptance

Advance Replacement is the process whereby if the client experiences a product failure in the first 60 days after the Date of Acceptance, upon confirmation and authorization from Safe Fleet Bus & Rail - Seon, a replacement component will be shipped to the client at Safe Fleet Bus & Rail - Seon's expense. The client is then responsible for shipping the faulty product back to Safe Fleet Bus & Rail - Seon. The client is billed for the Advance Replacement but is not invoiced for 60 days. If the faulty product is not returned, the client will be invoiced. Removal and replacement of product is the client's responsibility and is not covered under warranty and any product deemed damaged by the client (after examination by Seon) will be chargeable to the client.

Repair and Returns - Outside 60 Days of Date of Acceptance

After 60 days, if the client finds they have faulty equipment, the client can ship the equipment to Safe Fleet Bus & Rail - Seon for warranty service at the client's expense. The product will be evaluated and if the issue is covered under warranty, Safe Fleet Bus & Rail - Seon will ship either a replacement product or the product will be repaired and sent back to the client. The product will be returned to the client via the same method/service that the client shipped the product to Safe Fleet Bus & Rail - Seon. If the product is not covered under warranty, a repair estimate will be sent to the client for approval. Product deemed damaged by the client will be chargeable.

All warranty repairs, replacement and other associated work for US based clients is performed by Safe Fleet Bus & Rail - Seon in Charlotte, North Carolina and the work performed for Canadian clients is done at our head office in Coquitlam, British Columbia.

Seon Design Inc. ® Product Warranty

Seon Design Inc. ("Seon") warrants the cameras and components listed below against defects in workmanship and materials, provided that such defects appear or are discovered within the respective periods specified below, and provided further that the purchaser of such products notifies Seon of such defects in writing within thirty (30) days of the appearance or discovery of such defects:

- Three (3) years from date of purchase, parts and repair labor on all Cameras

- Three (3) years from date of purchase, parts and repair labor on the Explorer®, Trooper®, TH, and NX series DVR Systems

- Three (3) years from date of purchase, parts and repair labor on all hard disk drives and solid state drives (SSD's)

- One (1) year from date of purchase, parts and repair labor on all SD card storage media

- Two (2) years from date of purchase, parts and repair labor on inView 360™ Around Vehicle Monitoring Systems (including cameras, ECU, and wiring)

- One (1) year from date of purchase, parts and repair labor on the Smart Reach® and vMax Pulse Wireless systems and other Wireless products

- One (1) year from date of purchase, parts and repair labor on the LMU, VML Controller, Student Tracking RFID reader, DS2, other vMax Live Plus and vMax Navigator hardware products.

- One (1) year from date of purchase, parts and repair labor on all other products and accessories

If Seon repairs any camera or component which is out of warranty, Seon warrants such repaired cameras or components against defects in workmanship and materials provided that such defects appear or are discovered within 90 days from date of shipment of such repaired camera or component to customer by Seon, and provided further that the purchaser of such products notifies Seon of such defects within thirty (30) days of the appearance or discovery of such defects. Note: This warranty does not cover equipment and component removal or replacement labor regardless of cause.

Subject to the terms and conditions listed below, during the relevant warranty period, Seon will repair, replace, or refund the purchase price for the defective product, whichever Seon considers to be appropriate in the circumstances, in Seon's sole and arbitrary opinion, free of charge, any defective products returned prepaid. In the event the purchaser has a problem with any Seon product, please call and request a **RETURN MATERIALS AUTHORIZATION (RMA) NUMBER** from the Service Department. Please call 1.844.899.7366 or 604.941.0880 and ask for the Service Department. Be sure to have the model number, serial number and the nature of the problem available for the customer service representative. Prior authorization **MUST** be obtained for all returns, exchanges, or credits. **ITEMS SHIPPED TO SEON WITHOUT A CLEARLY IDENTIFIED RMA NUMBER MAY BE REFUSED**.

Products returned will be tested to verify for possible defects. Upon verification of a defect, the product will be repaired or exchanged, or the purchase price will be refunded or credited to the customer's account, at the sole option of Seon. In the event of replacement, the returned product will be credited to the customer's account and a new invoice issued for the replacement item. Seon reserves the right to refund the purchase price or to issue a credit only in lieu of replacement. Seon may use new or refurbished replacement parts for repairing its products, at its sole and arbitrary discretion. Seon may replace an entire unit with an equivalent model, at its sole and arbitrary discretion. If a unit is exchanged, the returned product shall become the property of Seon and the exchange product becomes the property of the purchaser, and the remainder of the warranty that applied to the original unit purchased shall apply to the exchanged product. Exchange units may be new units, or units that have been repaired to full factory specifications, at Seon's discretion. If the product is found to be in good working order or its inability to function properly is not covered by this warranty, the product will be returned in the same condition as received unless repair is possible and requested by the customer. Repairs of such nature will incur a charge for parts and labor and will proceed only by agreement with the customer to accept the charge.

ADVANCE REPLACEMENTS

If there is a defect in workmanship or materials covered by this warranty in a camera, recorder, or component, and customer notifies Seon of such within sixty (60) days of:

(a)   the date of installation of such product if the installation of such product was done by Seon; or

(b)   if Seon did not install the product, of the date of shipment of the product to the customer by Seon,

and the customer requests advance replacement of such product by Seon, Seon will replace such product without charge in advance of return of such product by customer to Seon provided that if customer has not returned the defective product to Seon within sixty (60) days of the date of shipment by Seon of the advance replacement, then Seon will invoice the customer for the purchase price of the advance replacement product including shipping costs and any taxes, duties or other charges related to the advance replacement, and the customer shall pay to Seon the amount invoiced within 30 days of receipt of invoice, or if the customer has a written agreement with Seon regarding credit terms, then the customer shall pay the amount invoiced in accordance with the agreed-upon credit terms:

THIS WARRANTY SHALL NOT APPLY:

(a)   to equipment not supplied by Seon;

(b)   to computer equipment supplied by Seon (such as monitors, printers, servers and laptops) not manufactured by Seon. The customer must contact original manufacturer of such equipment for warranty terms and service;

(c)   to equipment, including, any components, which shall have been operated in excess of rated capacity, subject to negligence, accident, or damage by circumstances beyond Seon's control, or to improper installation, operation, maintenance, servicing, alterations or storage, modification without Seon's written authorization, misuse, vandalism, fire, floods or acts of nature so as, in Seon's exclusive and arbitrary judgment, to affect the same adversely;

(d)   to equipment that is installed utilizing installation products not supplied by Seon;

(e)   if the warranty seal on the DVR has been broken or tampered with;

(f)   if the serial number for the product has been altered in any way; or

(g)   if the product has been operated outside of the specified Operating Environment specified in the Seon User's Manual for such product, or

(h)   to cover any costs incurred by the customer for the removal of defective cameras or components or of non-defective cameras or components, or for the installation of repaired cameras or components or for the reinstallation of non-defective cameras or components, all of which are for the account of the customer.

Disclaimer

THIS WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER REPRESENTATIONS, WARRANTIES, GUARANTEES AND CONDITIONS, EXPRESS OR IMPLIED, STATUTORY OR OTHERWISE AND WITHOUT LIMITING THE GENERALITY OF THE FOREGOING, SEON EXPRESSLY DISCLAIMS AND EXCLUDES ANY IMPLIED WARRANTY OF MERCHANTABILITY, DURABILITY OR FITNESS FOR PURPOSE AND ANY WARRANTIES OR MODIFIED WARRANTIES ARISING FROM USAGE OF TRADE OR COURSE OF DEALING.

Any description of the goods or services, whether in writing or made orally by Seon or Seon's agents, specifications, samples, models, bulletins, drawings, diagrams, engineering sheets or similar materials used in connection with customer's order are for the sole purpose of identifying the goods and/or services and shall not be construed as an express warranty. Any suggestions by Seon or Seon's agents regarding use, applications or suitability of the goods and/or services shall not be construed as an express warranty unless confirmed to be such in writing by Seon. Purchaser assumes full responsibility for selecting products to achieve purchaser's intended purposes, for properly installing and using those products, and for verifying the results obtained therefrom.

PURCHASER'S EXCLUSIVE REMEDY AND SEON'S ENTIRE LIABILITY ARISING FROM OR IN CONNECTION WITH PURCHASER'S USE OF THE PRODUCTS AND/OR THIS AGREEMENT SHALL BE REPAIR OR REPLACEMENT OF DEFECTIVE PRODUCTS, OR REFUND OR CREDIT OF THE PURCHASE PRICE OF THE PRODUCTS AS SET FORTH ABOVE. SEON SHALL NOT BE SUBJECT TO AND DISCLAIMS: (A) ANY OTHER OBLIGATIONS OR LIABILITIES ARISING OUT OF BREACH OF CONTRACT OR OF WARRANTY; (B) ANY OBLIGATIONS WHATSOEVER ARISING FROM TORT CLAIMS (INCLUDING NEGLIGENCE, AND STRICT LIABILITY) OR ARISING UNDER OTHER THEORIES OF LAW WITH RESPECT TO GOODS SOLD OR SERVICES RENDERED BY SEON, OR ANY UNDERTAKINGS, ACTS OR OMISSIONS RELATING THERETO; AND (C) ALL CONSEQUENTIAL, INCIDENTAL, SPECIAL AND CONTINGENT DAMAGES WHATSOEVER, EVEN IF SEON HAS BEEN SPECIFICALLY ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Without limiting the generality of the foregoing, Seon specifically disclaims any liability for property or personal injury damages, penalties, special or punitive damages, damages for lost profits or revenues, loss of use of goods or any associated equipment, cost of capital, cost of substitute goods, facilities or services, down-time, shut-down or slow-down costs, or for any other types of economic loss, and for claims of customer's customers or any third party for any such damages. Some jurisdictions do not allow limitation or exclusion of incidental or consequential damages, so this limitation or exclusion may not apply to purchaser. In no event shall Seon's total liability for any damages to purchaser or any other person in connection with the products or this agreement exceed the lower of the suggested list price or the actual price paid for the products, regardless of whether such liability arises from contract, tort, warranty or any other form of claim. If any provision of this agreement is found to be void, invalid, or unenforceable, that finding shall not affect the remaining provisions, all of which shall be enforced to the full extent permitted by law. If any remedy hereunder is determined to have failed of its essential purpose, the limitations of liability and exclusion of damages set forth above shall remain in full force and effect. This agreement may be modified only by a writing signed by a duly authorized representative of Seon.

Provisions Applicable to American Customers

For those customers whose mailing address is in the United States, Seon's offer and any agreement of sale resulting therefrom shall be governed by and construed in accordance with the internal and domestic laws of the State of WASHINGTON without giving effect to the conflict of laws rules thereof. The Superior Court of Washington for Whatcom County and U.S. District Court for the Western District of Washington (the "U.S. Closed Courts") shall have exclusive jurisdiction to entertain and determine all disputes and claims, whether for specific performance, injunction, declaration or otherwise arising out of or in any way connected with the construction, breach, or alleged, threatened or anticipated breach of the contract resulting from this offer and shall have jurisdiction to hear and determine all questions as to the validity, existence or enforceability thereof. Customer specifically consents to such Court's exercise of jurisdiction over it. The purchaser attorns to the exclusive jurisdictions of the jurisdiction of the U.S. Closed Courts, waives any obligation to venue in any action or proceeding regarding Seon Products and waives any objection that the U.S. Closed Courts are an inconvenient forum or do not have jurisdiction over the purchaser of Seon. The United Nations Convention On Contracts For The International Sale Of Goods shall not apply.

Provisions Applicable to Canadian Customers

For those customers whose mailing address is in Canada, Seon's offer and any agreement of sale resulting therefrom shall be governed by and construed in accordance with the internal and domestic laws of the Province of BRITISH COLUMBIA and the laws of Canada applicable therein without giving effect to the conflict of laws rules thereof. The courts of British Columbia (the "Canadian Closed Courts") shall have exclusive jurisdiction to entertain and determine all disputes and claims, whether for specific performance, injunction, declaration or otherwise arising out of or in any way connected with the construction, breach, or alleged, threatened or anticipated breach of the contract resulting from this offer and shall have jurisdiction to hear and determine all questions as to the validity, existence or enforceability thereof. The purchaser attorns to the exclusive jurisdictions of the jurisdiction of the Canadian Closed Courts, waives any obligation to venue in any action or proceeding regarding Seon Products and waives any objection that the Canadian Closed Courts are an inconvenient forum or do not have jurisdiction over the purchaser of Seon. The United Nations Convention On Contracts For The International Sale Of Goods shall not apply.

The information contained herein is subject to change without notice.

Extended Warranty for Certain Products

The following extended warranty ("Extended Warranty") provisions apply to products ("Extended Warranty Products") in respect of which the customer has purchased the Extended Warranty as a separate product from Seon. If any provisions of the Extended Warranty conflict or are inconsistent with the provisions of the basic warranty set forth above, the provisions of the Extended Warranty shall govern.

Seon warrants the Extended Warranty Products against defects in workmanship and materials provided that such defects appear or are discovered within the extended warranty period set forth in the applicable warranty purchased by the customer and provided further that the purchaser of such products notifies Seon of such defects within 30 days of the appearance or discovery of such defects.

Under the Extended Warranty:

(a)   Seon will provide repairs to the Extended Warranty Product at no extra charge during the Extended Warranty period;

(b)   normal wear and tear IS covered, including replacement of hard drives if necessary;

(c)   the parts and repair labor required to complete all warranted repairs are included;

(d)   Seon will arrange and pay the cost of ground freight between customer's location and the Seon U.S.A. service facility (or such other location) as is designated by Seon in the relevant Return Material Authorization issued by Seon in respect of such Extended Warranty Product; and

(e)   Seon will pay freight, brokerage and duty costs to bring the goods to Canada, if required, in the sole and arbitrary opinion of Seon.

In addition to the telephone numbers provided above for reporting a warranty matter, purchasers of Extended Warranty products may report warranty matters by e-mail to Seon at: service@seon.com.

The purchaser reporting an Extended Warranty issue may request Seon to arrange for pick-up of the Extended Warranty Products and shall provide information as to the number of parcels and shall request a RETURN AUTHORIZATION (RA) NUMBER.

Seon will only be responsible for the cost of ground freight. Any additional costs for express modes of freight will be paid by the purchaser of the Extended Warranty Product. Advance replacements will not be provided.

A renewal or extension of the Extended Warranty is not automatic and will only be offered at the sole discretion of Seon and must be verified by Seon in writing.

Supporting Documents

This page is intentionally blank   34

DISADVANTAGED BUSINESS ENTERPRISES (DBE) CERTIFICATION

This contract is subject to the requirements of Title 49, Code of Federal Regulations, Part 26, *Participation by Disadvantaged Business Enterprises in Department of Transportation Financial Assistance Programs*. The national goal for participation of Disadvantaged Business Enterprises (DBE) is 10%. Metro's overall 2019-2021 goal for DBE participation is 2.00%; the race neutral goal is 1.12%, and the race conscious goal is 0.88%. There is no contract goal for this procurement.
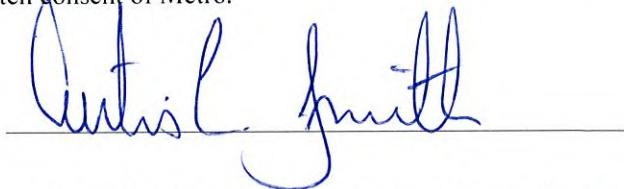
The contractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of this DOT-assisted contract. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as Metro deems appropriate. Each subcontract the contractor signs with a subcontractor must include the assurance in this paragraph (see 49 CFR 26.13(b)).

The contractor is required to pay its subcontractors performing work related to this contract for satisfactory performance of that work no later than 30 days after the contractor's receipt of payment for that work from Metro.

The contractor may not hold retainage from its subcontractors.

The contractor must promptly notify Metro, whenever a DBE subcontractor performing work related to this contract is terminated or fails to complete its work, and must make good faith efforts to engage another DBE subcontractor to perform at least the same amount of work. The contractor may not terminate any DBE subcontractor and perform that work through its own forces or those of an affiliate without prior written consent of Metro.

Signature: _____

Name and Title: ___Curtis Smith, Vice President of Operations___

Company Name: ___Safe Fleet Bus & Rail___

Date: ___August 29, 2019___

LOBBYING CERTIFICATION

The undersigned contractor certifies, to the best of his or her knowledge and belief, that:
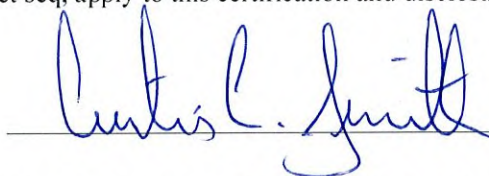
(1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan or cooperative agreement.

(2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for making lobbying contacts to an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan or cooperative agreement, the undersigned shall complete and submit Standard Form LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions. See 49 CFR 20.100.

(3) The undersigned shall require that the language of this certification be included in the award documents for all sub-awards at all tiers (including subcontracts, sub-grants, and contracts under grants, loans, and cooperative agreements) and that all sub-recipients shall certify and disclose accordingly. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31 USC. Any person who fails to file the required certification shall be subject to a civil penalty of not less than $10,000 and not more than $100,000 for each such failure. [Note: Pursuant to 31 USC 1352(c)(1)-(2)(A), any person who makes a prohibited expenditure or fails to file or amend a required certification or disclosure form shall be subject to a civil penalty of not less than $10,000 and not more than $100,000 for each such expenditure or failure. See 49 CFR 20.400.]

The undersigned contractor certifies or affirms the truthfulness and accuracy of each statement of its certification and disclosure, if any. In addition, the Contractor understands and agrees that the provisions of 31 USC 3801, et seq, apply to this certification and disclosure, if any.

Signature: _____

Name and Title: Curtis Smith, Vice President of Operations

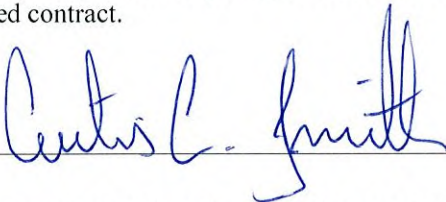Company Name: Safe Fleet Bus & Rail

Date: August 29, 2019

NON-COLLUSION CERTIFICATION

This is my sworn statement to certify that this proposal was not made in the interest of or on behalf of any undisclosed entity. This proposal is not collusive.

This proposer has not been a party to any agreement or collusion in restraint of freedom of competition by agreement to bid a fixed price, to refrain from bidding, or otherwise. This proposer has not, directly or indirectly, by agreement, communication or conference with anyone, attempted to induce action prejudicial to the interest of Topeka Metropolitan Transit Authority, or of any proposer, or anyone else interested in the proposed contract.

Signature: _____

Name and Title: Curtis Smith, Vice President of Operations

Company Name: Safe Fleet Bus & Rail

Date: August 29, 2019

TOPEKA METRO

SUSPENSION / DEBARMENT CERTIFICATION
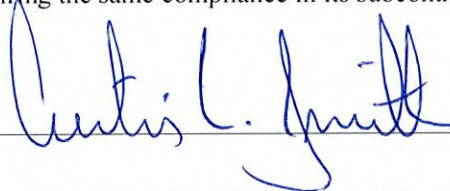### In regard to 2 CFR Parts 180 and 1200

In accordance with 2 CFR Parts 180 and 1200, the contractor is required to verify that none of its principals or affiliates:

1) is included on the federal government's suspended and debarred list;
2) is proposed for debarment, declared ineligible, voluntarily excluded or disqualified;
3) within three years preceding this proposal, has been convicted of or had a civil judgment rendered against them for (a) commission of fraud or criminal offense pertaining to performing a public transaction, (b) violation of any federal or state antitrust statute, or (c) embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements or receiving stolen property;
4) is indicted or charged by a governmental entity for any of the charges in 3) above; and
5) has had any public transaction terminated for cause or default within three years preceding this proposal.

The contractor is required to include this requirement in any subcontracts related to this contract.

By signing and submitting its proposal, the proposer certifies that the certification in this clause is a material representation of fact relied upon by Metro. If it is later determined that the proposer knowingly rendered an erroneous certification, in addition to remedies available to Metro, the Federal Government may pursue available remedies, including but not limited to suspension and/or debarment. The proposer agrees to verify that none of its principals or affiliates is included on the federal government's suspended and debarred list at any time throughout the period of this contract. The proposer further agrees to include a provision requiring the same compliance in its subcontracts related to this contract.

Signature: _____

Name and Title: Curtis Smith, Vice President of Operations

Company Name: Safe Fleet Bus & Rail

Date: August 29, 2019

Maintenance Support and Training

Maintenance Support

All new Safe Fleet Bus & Rail customers receive system installation and training as part of any system purchase. Topeka Metro staff and maintenance employees will receive training on system installation, maintenance and troubleshooting that will give them a basic technical understanding of the system hardware and software.

Safe Fleet Bus & Rail strongly believes in the need to empower customers to take ownership of provided systems to ensure optimal utility from the system. Safe Fleet Bus & Rail is therefore proposing a cooperative/collaborative maintenance plan whereby Safe Fleet Bus & Rail will provide training to Topeka Metro personnel to allow them to perform "Tier One" maintenance of the systems. This approach has in the past proven to reduce overall maintenance costs. This training is designed for maintenance personnel to be able to perform tasks such as on-board DVR operation and programming, removal and installation of hardware, troubleshooting of issues, preventative maintenance and other Tier 1 maintenance procedures. The training includes live hardware demonstrations on a vehicle to describe the hardware, hardware operation, hardware troubleshooting, function testing, DVR programming, and scheduled preventative maintenance to maintain the system.

As a first level of escalation, in instances where Topeka Metro personnel cannot resolve an issue through maintenance troubleshooting, Safe Fleet Bus & Rail has fully trained, professional service staff available in our Service Centre. The customer will have access to Safe Fleet Bus & Rail's qualified Technical Support staff to assist them with troubleshooting any system issues for the life of the system.

If a situation occurs where Topeka Metro staff and Safe Fleet Bus & Rail cannot resolve an issue through technical phone support, the customer will have access to OPTIONAL onsite support that is outside of the standard warranty process.

Any onsite repair or installation work requested by the customer is subject to standard service rates including travel costs, labor and materials as detailed in the Price Proposal section of this response.

Safe Fleet Bus & Rail will provide Topeka Metro with a comprehensive Maintenance and Troubleshooting guide detailing preventative maintenance procedures, maintenance schedules and other information to ensure a high degree of reliability of the systems and help reduce maintenance costs. This documentation will be the basis of the training that maintenance staff will receive.

Training

Safe Fleet Bus & Rail proposes delivering end user training to authorized Topeka Metro personnel during the installation and system implementation phases of the project.Training includes comprehensive instruction delivered by certified Safe Fleet Bus & Rail representatives. Training will include two primary categories: on-board system installation, operation, and maintenance, and software.

On-board system training is intended for personnel involved in installing the systems and maintaining system operation. This will include hands-on training with an on-bus system. Software training generally is delivered as a combination of classroom and on-board the vehicle. A training agenda will be finalized with Topeka Metro following contract award. The cost of training is included as part of the system implementation.

The primary training topics will include:

- system operation and end user software - vMax View and vMax Commander (if wireless is included) operation. Training can be modified based on Topeka Metro's needs. Training is typically arranged to be delivered as a combination of classroom and on-vehicle for demonstration purposes. Training documentation will be provided in hard copy and computer readable formats to be determined.

Additionally, Safe Fleet Bus & Rail will provide Topeka Metro with access to remote WEB based, self-paced training tutorials that can be accessed anytime at Topeka Metro's convenience at no cost for the life of the system.