



State of West Virginia

Department of Transportation

Crash Reporting and eCitation System
Modernization RFP

RFP # CRFP 0803 DOT2600000002

Technical Proposal

Due: March 16, 2026, 1:30pm ET

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West Virginia Interactive, LLC
a Tyler Technologies company

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Title Page

RFP Subject	Crash Reporting and eCitation System Modernization RFP
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5.3.6.2.1 Cover Letter

March 16, 2026

John Estep, Buyer
Department of Administration
Purchasing Division
2019 Washington St E
Charleston, WV 25305

Dear Mr. Estep:

In response to the State of West Virginia's CRFP 0803 2600000002, West Virginia Interactive, LLC dba Tyler Technologies West Virginia, a subsidiary of Tyler Technologies, Inc. (collectively "Tyler") respectfully submits this proposal for the State's consideration to modernize its Crash Reporting and eCitation System. Our end-to-end solution covers the full gamut, from data collection to processing, to analytics and reporting. We are confident that our industry-leading Integrated Traffic Records, Analytics, and Citizen Portal solution, coupled with our vast industry expertise and experience providing citation and crash reporting for law enforcement agencies across the U.S., will meet and exceed the State's needs.

Tyler Technologies is the largest and most established provider of integrated software and technology services focused on the public sector. Tyler's solutions empower local, state, and federal government entities to operate more efficiently and connect more transparently with their constituents and with each other. By connecting data and processes across disparate systems, Tyler's solutions are transforming how clients gain actionable insights that solve problems in their communities. Tyler has more than 45,000 successful installations across more than 13,000 sites, with clients in all 50 states, Canada, the Caribbean, Australia, and other international locations.

Tyler has proudly served the State of West Virginia since 2007. Our Charleston office currently supports more than 340 West Virginia state agencies, boards, commissions, and local governments, including 189 state agencies, 79 county departments, and 66 municipal departments, delivering hundreds of innovative digital government products and services. The Tyler team in West Virginia delivers secure, mission-critical services that connect West Virginia residents and businesses with West Virginia government. Our long-standing presence in the State reflects a deep understanding of West Virginia's regulatory environment, operational realities, and commitment to public service. As West Virginians, we are uniquely positioned to deliver solutions that meet the State's specific needs while maintaining continuity, accountability and local support. In conjunction with key members of Tyler's Data & Insights and Enforcement Mobile teams, we will work with the State to define, implement, and deploy a complete Crash Reporting and eCitation System to further the State's goal of improving traffic safety and reducing fatalities and serious injuries caused by traffic crashes.

Tyler appreciates the opportunity to submit this proposal and looks forward to continued collaboration with the State on this critical modernization initiative. We trust you will find our solution unique, intriguing,

and cost effective, and we welcome the opportunity to further demonstrate how our experience, technology, and delivery approach will provide lasting value to the West Virginia DOT, local agencies, and the citizens you serve.

Thank you for your consideration of Tyler.

Sincerely,



Ian McQuinn
General Manager
Tyler Technologies West Virginia

5.3.6.2.2 Executive Summary

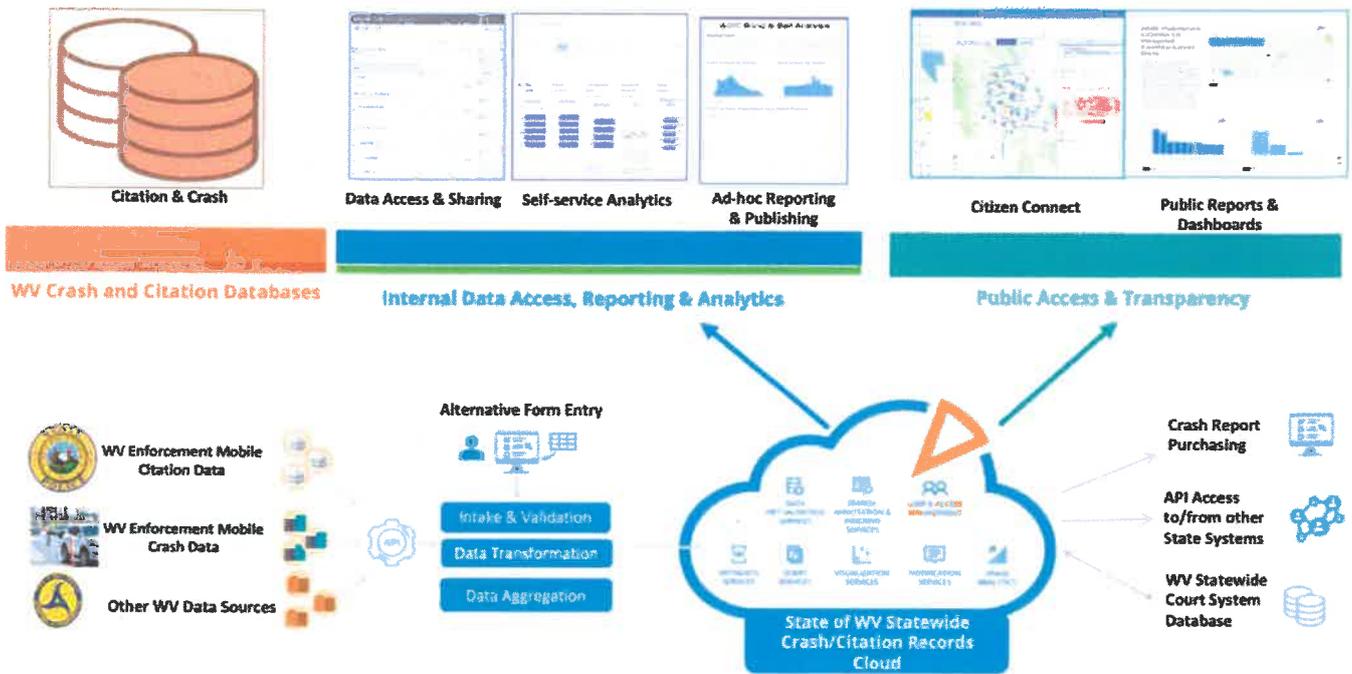
Tyler Technologies West Virginia (Tyler) is proud to offer a comprehensive, modern crash reporting and eCitation solution specifically designed to improve the crash and citation data collection and reporting process for the State of West Virginia. Our solution will equip the West Virginia Department of Transportation (WVDOT), its partner agencies, and its citizens with timely, reliable, and actionable information to support data-driven decision-making and improved traffic safety outcomes.

Fully aligned with, and exceeding the requirements outlined in this RFP, Tyler’s solution builds on the significant progress WVDOT and its partners have made since 2009 in reducing traffic-related fatalities and serious injuries. By modernizing electronic crash reporting and citation capabilities, the State will realize greater operational efficiency, improved data accuracy, and enhanced system interoperability. When integrated with other state and federal data systems, this modernized platform will further strengthen West Virginia’s ability to advance traffic safety initiatives and achieve measurable reductions in roadway incidents statewide.

Tyler’s **Integrated Traffic Records, Analytics, and Citizen Portal (ITRAC)** solution consists of a suite of products, secure cloud infrastructure, and best practices expressly crafted to provide a complete end-to-end solution that is fully designed, developed, and managed using Tyler products, secure cloud infrastructure, and personnel in a certified-compliant AWS environment that aligns with WVDOT’s Enterprise Technology Infrastructure Standards. The Tyler ITRAC solution includes several key components – front-end data collection, data pipeline, centralized repository, business intelligence tools, and public access as shown in the diagram below.

State of West Virginia: Connected Traffic Safety Data Cloud

Future State Data Platform Architecture



Tyler Enforcement Mobile's front end crash reporting and citation issuance tool provides the data collection system for crash and citation data, which provides high-quality data and tooling to support law enforcement and court personnel in their operational responsibilities. Enforcement Mobile runs on any device with a Windows, Android, or iOS operating system. The crash reports and citations are uploaded to the central Enforcement Mobile server, which resides on the AWS GovCloud, for processing according to the exact specifications of the State. The solution is web-based and offers virtually unlimited scalability.

Once processed according to the State-defined workflow, the approved crash and citation records are incorporated into the **Tyler Enterprise Data Platform (EDP)**. All reporting originates in the EDP, and records are further redacted and transmitted to the West Virginia Crash and Citation Records Databases and State systems as indicated in the RFP.

The Enforcement Mobile and EDP solutions serve as a fundamental building block for Tyler's Connected Communities vision. Truly connected communities are achieved when residents and government are active participants in making a community work and thrive. Tyler provides the digital infrastructure that connects cities, counties, state, and federal government services and schools to give agencies the ability to share data and insights across departments and geographic boundaries. We envision a world in which all Tyler clients seamlessly share critical data. A vision where:

- Leaders can make informed decisions
- Communities become safer
- Government is more transparent
- Community members are more engaged
- Efficiency is the norm; processes and systems are simplified
- Department and geographic information silos are broken down

We believe this vision can be realized through our continued partnership with the State of West Virginia. Our technology, combined with Tyler's unmatched presence in the State, provides an opportunity to connect data statewide – by bringing agencies closer together, and in doing so, creating truly connecting communities. All resulting in improved traffic safety, increased transparency, improved efficiencies, and greater engagement by users across West Virginia.

Data Collection

In electronic ticketing, accurate data collection and processing enable officers and court personnel to enforce the law safely, efficiently, and effectively. Tyler's **Enforcement Mobile** provides a robust electronic citation and crash solution that captures the data needed to issue and process citations and crash reports. By prioritizing accurate data collection at the source through proven, flexible tools, the Tyler ITRAC solution ensures the State of West Virginia captures traffic safety data reliably so downstream processes can be trusted.

Many statewide data collection initiatives rely heavily on back-end analysis, manual corrections, and resource-intensive workflows that ultimately reduce data quality and operational efficiency. Tyler's approach captures accurate data upfront, then moves it through automated workflows to deliver trusted information the State can use to meet its operational goals and objectives.

Enforcement Mobile provides a device-independent electronic citation and crash solution that can be used on handheld, laptop, tablet, and cellular devices with a Windows, Android, or iOS operating system. It is a complete solution that spans the full spectrum from data capture to processing to transmittal straight into most systems. Enforcement Mobile is not just for citations and crash reports, but it also works for most public safety mobile applications.

With its configurability, integration, and virtually unlimited scalability for the future, Enforcement Mobile empowers customers to leverage their existing public safety and courts applications. This increases efficiency and ensures that data collected is always secure during the collection, storage, and transfer processes.

Officer safety during a traffic stop is of the utmost importance, and Enforcement Mobile reduces the time officers spend on the roadside dramatically. In fact, agencies report that officers went from spending up to 10 minutes on the scene to less than three minutes. All these reasons account for why hundreds of agencies and courts throughout the United States use Enforcement Mobile to complete more than 10 million citations annually.

Our success is based heavily on the fact that our system has been designed by the officers themselves. We employ a highly collaborative approach to implementing our solution, and we hire off-duty police officers to conduct our training. With our extensive experience, we understand the nuances of the law enforcement community. This experience minimizes the risk to the agency by not having to 'reinvent the wheel,' thereby limiting the customizations to the user interface and providing the officers with a usable system very quickly.

Here are just a few examples of Enforcement Mobile's capabilities:

- Complete control over every drop-down in our applications from the website (i.e., locations, offenses, officers, etc.).
- Full administrative control over all users and devices to control which users can view or modify all data fields.
- Citation Detail Reports which look exactly like the violator copy and can optionally print with the photographs, fingerprints, signatures, video and/or audio notes.
- Complete control over the citation numbers including complete audit reports to account for all citation numbers.
- Web-based Citation and Crash Report Entry Screen for entry of any paper tickets and crash reports. This will allow all reports to be complete as well as retaining all electronic interfaces for 'paper' forms.
- Detailed statistical reporting for the officers such as count reports, location reports, selective traffic enforcement reports, racial profiling reports and many others.
- Complete history of each device including number of tickets, who was logged in, last sync dates, and any errors or activities performed on those devices.
- Detailed workflow for citations that can include approvals, rejections, and status of each record with regards to each export.

Another feature of our system is our import/export engine. This engine allows the agencies to create/modify any import/export routines in a variety of formats (CSV, XML, flat-file, or web service). This allows our system to quickly and easily create custom formats to more easily integrate with existing systems such as court and RMS.

The Enforcement Mobile application is FBI CJIS compliant, as is the AWS GovCloud environment in which Enforcement Mobile data is stored. AWS demonstrates compliance with applicable CJIS requirements as supported by third-party assessed frameworks such as StateRAMP (now GovRAMP) and FedRAMP, which includes on-site data center audits by our FedRAMP-accredited 3PAO.

Benefits of Enforcement Mobile

- **Increased Officer Safety:** Officer safety during a traffic stop is of the utmost importance, and Enforcement Mobile minimizes the number of trips between the subject's car and the officer's car and dramatically reduces the time officers spend on the roadside. In fact, agencies report that officers went from spending up to 10 minutes on the scene to fewer than three minutes.
- **Increased Productivity:** The time required to complete the citation decreases dramatically, and the ease with which the data are synchronized improves – both uploading citations to the central server for processing and downloading any changes or updates to the software.
- **Increased Efficiency:** With the data validations, error checks, autofill based on key data elements (as defined by the client), and automated workflow routing that exist in Enforcement Mobile, citations feeding directly into the court/RMS systems are much more accurate than those manually entered.
- **Once and Done Data Entry:** With Enforcement Mobile, officers only enter data once. From electronic citation to electronic crash to Parking, Code Enforcement, and more, data needs only be entered one time. In fact, data from person and vehicle returns, GIS map locations, and third-party systems can be used to auto-populate any Enforcement Mobile module.

Total Tyler Integration

Tyler's Enforcement Mobile solution offers an integrated solution of comprehensive applications designed to meet the State's complex needs today and in the future. As part of Tyler Alliance, Enforcement Mobile integrates seamlessly with other native Tyler products, and there are no additional development or maintenance fees for interfaces with other Tyler products.

Secure, Centralized Data Repository

The data warehouse for this project will be supported by the **Tyler Enterprise Data Platform**, a cloud-native, FedRAMP-certified, enterprise-scale data-as-a-service solution that removes data silos by acting as a central repository, with the ability to connect to various source systems and automate the flow of data into the platform. This solution was designed specifically to support governments with data gathering and analysis, data capture, curation, management, search, sharing, querying, privacy, data transfer, knowledge discovery, and more.

Over 150 federal, state, and local agencies—including multiple West Virginia agencies—leverage the EDP for operational efficiency and data-driven decision-making. The EDP acts as a single, central data platform for West Virginia's traffic safety data and is equipped with services that allow users to quickly and easily manage the entire data lifecycle, including the ability for our customers to:

- Pull data from siloed, operational systems into a single source of truth, through ETL and automation;
- Clean data by automatically identifying errors and outliers;
- Import and add metadata to create and enforce strong data governance;
- Share data with select teams and users;
- Find relevant data through a robust search experience;
- Provide users with important changes to data through notifications and alerts; and
- Visualize, filter, and drill into data.

Key benefits include:

- **Technical and Functional Interoperability:** The EDP creates a single enterprise-wide reporting layer for data through its ability to integrate and merge multiple data sources and appropriately manage access to granular, incident-level data. The platform also supports highly customizable roles and permissions and full auditing capabilities into data sharing transactions. The tool connects groups of government knowledge workers to drive collaboration and results – not just by geography, but by serving as a platform for State employees from across various agencies like WVDPS, WVDMV, WV DOT, and others. Customizable metadata enables strong data governance and communication of the definition of common data elements to support a data dictionary as recommend by NHTSA for traffic safety data integration.
- **API Re-use:** Our solutions are designed from the ground up to deliver enterprise-scale data reusability. Each of the services that make up the EDP platform (i.e., indexing, automation, metadata management, search, query, alerting, and user management) offer a robust, developer-ready API. These APIs enable non-proprietary access to the data and allow infinite re-use of the State’s data by your business users and developers (through common, third-party analytical tools like SAS, Esri, Excel, Tableau and PowerBI, as well as through our standards-based APIs and a growing library of SDKs).
- **Creation & Management of Ad Hoc Reports:** In addition to providing the data management and API capabilities listed above (to support third party tools / extensibility where appropriate), the EDP allows clients the ability to build ad hoc data driven reports within platform (for either internal or public audiences as appropriate). Granular user controls of rights and permissions will allow the State complete control over both who has access to creating such reports, as well as control over the potential audience of these reports. Reports, as well as the underlying data assets that populate / compose them, become indexed and searchable content within the platform.
- **Fast Time-to-Value:** Data & Insights is a Data-as-a-Service (DaaS) product, which means that Tyler maintains the infrastructure on Amazon Web Services in a FedRAMP-certified environment and will auto-scale resources to meet the State’s needs. Users simply log in and access the platform’s various capabilities without the added burden of updating and patching the platform when the need arises.

Tyler recognizes that being good stewards of our customers’ data means making sure that the information on our platform is there when needed, is only visible to those who should have access, and has not been changed or modified. The Tyler FedRAMP-accredited data platform provides agencies with an enterprise-ready environment to securely collect, manage, analyze, and disseminate extensive amounts of data, internally and externally, to support the design and delivery of mission-critical programs.

Tyler has invested heavily in security and privacy programs to meet the strictest availability, confidentiality, and integrity requirements. With a dedicated team of security analysts continually monitoring for vulnerabilities and attacks, all clients, including state and local governments, benefit from these increased security measures. We have also brought in outside assessors to review our security controls, environment, and approach, and have created and deployed a bug-bounty program to encourage security researchers to test our systems. In May 2017, Tyler Data & Insights first achieved FedRAMP-Moderate Authority to Operate (ATO). Our FedRAMP compliance information is available on the FedRAMP website:

<https://marketplace.fedramp.gov/#!/products?sort=productName&productNameSearch=Socrata> .

Public Access

With our **Citizen Connect Portal**, citizens who visit your State website can see times and locations of crashes throughout the State. Additionally, depending on what WVDOT allows, people can view basic information about the incident. Records requests made by doctors, chiropractors, or whomever allowed could be more specific as opposed to “last two weeks of crashes.”

Citizen Connect allows citizens to gain transparency into what is happening on the roadways in their community. Community members have easy access to data that answers all their questions without exposing sensitive information. For example, departments can choose what data elements the community can access to control the integrity of an investigation or protect the names and information of crime victims safely and securely. In addition, citizens gain access to a geospatial map — which simply means users see pins on a map of their community for geography-based views — to gain information about incident types and locations happening in the community.

Crash Report Purchases – Public Portal

The Public Portal will be created using Tyler’s **Engagement Builder** tool, which is a cloud-native platform that can be used to both create citizen engagements (web forms, content pages, workflows, etc.) as well as branded web sites to present those engagements to citizens. Engagement Builder sites facilitate easy access to government services and information through a conversational interface, forms directory, and natural language search. Users can complete forms and applications as a guest or log in, which allow users to save, return to incomplete submissions, track progress through workflow, prepopulate recurring forms, and to view historic submissions and their artifacts. In fact, over 170 Engagement Builder applications are already deployed and used by West Virginians to interact and transact with their state government today. Citizens utilize Engagement Builder applications to get their Real ID, change their address with the DMV, and even report price gouging to the Attorney General’s Office.

The Public Portal will be a hub for citizen interaction with the program and a place to track and view their report requests. The Public Portal will provide users a mobile responsive and ADA compliant site to search, request and pay for collision reports. Per the RFP, payment will be collected via the State Treasurer’s Office. To date, Tyler has integrated 32 applications with the State Treasurer’s Office and processes more than \$50 million annually.

To service crash report requests, the Public Portal will connect via API to the crash report purchase repository. This will ensure a single source-of-truth for crash reports and offer a more seamless experience for all stakeholders. Requests received via the portal can be delivered digitally by leveraging this integration and configuring the workflow to enforce the applicable business rules and review tasks.

Established Relationship with West Virginia

The State of West Virginia is an existing customer of Tyler. Since 2007 Tyler Technologies West Virginia has served West Virginia government entities through our Charleston-based team, partnering with the more than 340 West Virginia state agencies, boards, commissions, and local governments. Our team consists of West Virginians who understand the unique needs of state agencies and our fellow residents.

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government agencies in West Virginia trust Tyler

At Tyler, we are working to connect state, city, county, and regional government services within a healthy digital infrastructure. Connecting data, processes, and people makes communities safer, smarter, and more responsive to the needs of residents. See how agencies across West Virginia work with Tyler to support their mission-critical programs.

● **66 municipal departments**
● **189 state agencies**

● **79 county departments**
● **8 districts**



Tyler is the largest and most established provider of integrated software and technology services focused on the public sector. Tyler's end-to-end solutions empower local, state, and federal government entities to operate more efficiently and connect more transparently with their constituents and with each other. By connecting data and processes across disparate systems, Tyler's solutions are transforming how clients gain actionable insights that solve problems in their communities. Tyler has more than 45,000 successful installations across more than 13,000 sites, with clients in all 50 states, Canada, the Caribbean, Australia, and other international locations.

With decades of exclusive public sector experience, Tyler is the market leader in providing integrated software and services. Subject matter experts and in-depth products result in a sustainable client partnership that delivers the industry's most comprehensive solution. We provide the industry's broadest line of software products and offer clients a single source for all their information technology needs in several major areas: Property & Recording, ERP, Civic Services, Health & Human Services, Courts & Justice, Public Safety, Data & Insights, Cybersecurity, Payments, and Schools.

We are known for long-standing client relationships, functional and feature-rich products, and the latest technology. In addition to software products, Tyler provides related professional services including installation, data conversion, consulting, training, customization, support, disaster recovery, and application and data hosting.

Enforcement Mobile

Since its inception in 2000, Brazos Technology (now Enforcement Mobile) has been focused specifically on the mobile technology field and continues to be so today. We have implemented our solution in over 1,800 law enforcement agencies across the country, including multi-department/multi-agency and statewide implementations. Enforcement Mobile is a time-tested, proven solution that has been a leader in the market for over 25 years. We spend more on Enforcement Mobile research and development than other solution providers and continue to strive to find new and innovative ways to provide mobile solutions to assist the law enforcement community. As part of Tyler, Enforcement Mobile continues to offer industry-leading mobile software solutions to law enforcement agencies and is committed to the Public Safety marketplace. We hire former law enforcement for all our operations positions. These resources provide both the relevance of solutions to our development team as well as to the officers we are training.

Enforcement Mobile Experience

Enterprise Mobile has led the industry in mobile software solutions since 2003. We have over 124,000 officers at over 1,800 agencies across the country—including statewide implementations in Nevada, Wyoming, and North Carolina—using our hosted electronic citation and crash solutions.

The State of North Carolina issued nearly 1.5 million citations using Enforcement Mobile in 2025, and eight (8) individual agency clients across the US issued over 100,000 citations apiece. Over 250 agencies use Enforcement Mobile for crash reporting today, with 11 states live and an additional 12 states in development. Our highest volume state for crash reporting is Nevada, with over 56,000 crash reports written with Enforcement Mobile in 2025.

Our outstanding 24x7x365 customer service, no change fee policy, and agency-specific configuration capabilities are just a few of the reasons why we continue to lead the market.

Data & Insights (Enterprise Data Platform)

For over a decade and a half, Tyler's Data and Insights Division, the evolution of what was known as Socrata, has been at the forefront of powering the world's most advanced data programs within every tier of government. Our technology has become the backbone for federal giants like the Department of Justice, Health and Human Services, and the Department of Transportation, entrusting us with their Data-as-a-Service infrastructure to operate securely and at an unparalleled scale highlighted in this proposal.

Our reach extends beyond federal achievements, with fourteen states embracing the Tyler suite for data platforms and applications. This includes the State of Nevada where they have implemented the exact same solution we are proposing to the State of West Virginia for traffic and safety data collection and reporting.

Our singular focus on putting data at the heart of every government program and empowering public sector leaders to use that data to improve operational efficiency and mission outcomes has cemented Tyler's data infrastructure, solutions, and services, as the backbone that supports:

- Nearly a thousand government entities,
- Over 870 million API transactions each month,
- And a thriving community of 1.4 million monthly active users.

Whether it's transportation, justice, financial, health, geospatial, or other necessary agency data, the Tyler EDP gives government agencies like WVDOT a flexible and secure environment where data can be

easily extracted from Tyler source systems and non-Tyler source systems and presented to approved personnel in a usable format allowing them to fulfill ad hoc reporting requirements, create data driven stories, improve internal data sharing, support public/policy driven transparency initiatives, and drive meaningful insights from approved and trusted agency data. For WVDOT, we envision the Tyler EDP satisfying many of the Department's reporting needs noted on the reporting tab in the requirements matrix provided as part of the formal RFP, as well as opening new and meaningful ways for the department personnel to work with its data to become more data driven and to support the Department's ever-growing traffic safety data program needs.

Project Team Organization

Tyler will provide all aspects of this project. We will not use subcontractors. The Project Manager will be PMP certified, and both the functional lead and technical architect will have at least two years of experience in their roles, per RFP requirements.

Tyler will staff this project with a dedicated, cross-functional team that operates as a single delivery organization. While team members bring specialized expertise from Tyler's Enforcement Mobile and Data & Insights practices, they report to one Project Manager, follow one implementation plan, and share accountability for project success.

This unified structure ensures WVDOT works with one Tyler team rather than coordinating between separate divisions. Joint planning sessions, shared status reporting, and coordinated milestones eliminate handoff delays and communication gaps that can derail complex implementations. And with our Tyler West Virginia team located minutes from the WVDOT offices, we can be available to the State in person with little notice. Our local Tyler team has over 19 years of experience working with the West Virginia Team, and together we will continue to provide the level of support and attention to detail to which the State is accustomed.

5.3.6.2.3 Proposed Solution

Solution Overview

For this project, Tyler proposes our **Integrated Traffic Records, Analytics, and Citizen Portal (ITRAC) solution**, which consists of **Enforcement Mobile** electronic citation and crash reporting, **Enterprise Data Platform (EDP)**, and our **Engagement Builder** public portal. All aspects of the solution are configured to meet the State's specifications – from field and screen layouts to business rules and workflows – and reside in the highly secure Amazon Web Services (AWS) cloud.

Tyler offers a complete end-to-end solution for the State that is not merely a concept but has been successfully implemented and in use by the State of Nevada for many years. Using Enforcement Mobile, officers can quickly, safely, and accurately collect citation and crash data on mobile devices and then upload the citations and reports to the central server for processing according to the custom workflow and business rules defined by the State. Web citation and crash entry screens are included as well. The data can be sent to individual agencies' court and RMS systems as needed as well as to our Tyler EDP for reporting.

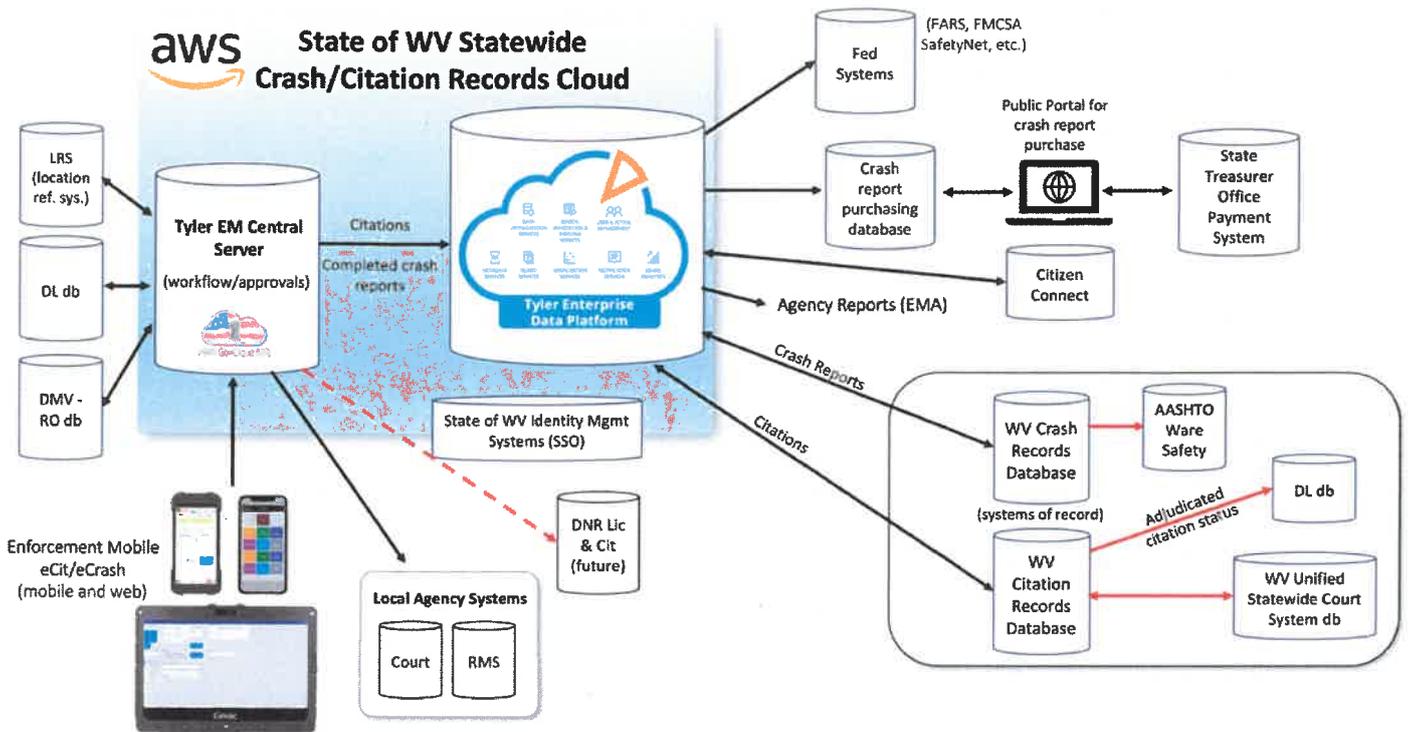
Historical crash or citation data from the State's existing system will be imported into the data warehouse for reporting purposes.

Operational citation and crash data will be uploaded from the Enforcement Mobile server to the Tyler EDP at a frequency agreed between Tyler and the State, roughly every 15 minutes. Other datasets useful for traffic safety analysis can be added to the EDP through a one-time ingestion or automated with scheduled updates. Reporting and analysis may be done via the EDP's visualization tools or via other analytical or reporting tools. Access to the data and reporting will be controlled via logins with role-based access to assets on the platform.

For agencies that wish to sell crash reports, records will be transmitted to a separate, secure crash report purchasing database in the AWS cloud so as not to interfere with the reporting database. Citizens can purchase copies of crash reports via the Tyler Engagement Builder portal, which will interface with the crash report purchasing database and the State Treasurer's Office for payment. Tyler's Engagement Builder is an end-to-end digital government solution designed to take the guesswork out of modernizing the user experience. Government agencies can quickly develop new online forms, services, and applications using no-code drag-and-drop modules. Staff can access and manage data from an intuitive administrative dashboard, creating streamlined and improved user journeys without straining IT resources. Designed for flexibility, Engagement Builder can function as a stand-alone solution to put new services online or integrate with other applications using our secure API.

From the Tyler EDP, the citations and crash reports will be sent to the WV statewide crash and citation databases for further transmittal to FARS, FMCSA SafetyNet, etc. We provide this additional processing and transmittal to NHTSA, FARS, Carfax, and more, for the State of Nevada today and have for over a decade.

The design of this solution reflects the State's requirements as indicated in the RFP and is depicted in the more technical diagram below.



Note: Solid red lines depict non-Tyler interfaces; dashed red line is future interface.

The following functionality is included in this proposal:

- Enforcement Mobile Site License for eCitation
 - Traffic/DNR citations
 - Warnings
- Enforcement Mobile Site License for eCrash
- Driver Exchange Form
- Enforcement Mobile Crash Entry Screen (web)
- Enforcement Mobile Citation Entry Screen (web)
- Tyler Enforcement Mobile Central Server
- Interfaces from Enforcement Mobile Central Server:
 - Local Agency Court/RMS systems (one included with pilot)
 - Location Referencing System (LRS)
 - DMV – Registered Owner lookups
 - Driver’s License database
- Enforcement Mobile Analytics (crash and citation)
- Enterprise Data Platform
- Interfaces from EDP:
 - WV Crash Records database
 - WV Citation Records database
 - Federal Systems
 - State Treasurer’s Office (crash report payments)
 - DNR Licensing & Citations System (*future*)

- Engagement Builder
 - Public access to data (Citizen Connect)
 - Crash report purchasing portal (payments via State Treasurer's Office)
- State of WV Identity Management System (state level)

Optional add-on functionality (post selection contract considerations):

- Stop Data module
- Identity Management (local domains)
- PACE (extended training options)

Roadmap

Tyler is committed to evolving our solutions as technologies advance. Tyler's Product Management teams constantly communicate with our clients and watch industry trends to provide the broadest and deepest set of product features for our clients. We attend industry trade shows, participate in online client discussions in the Tyler Community web portal, host onsite Client Steering Committees, and participate heavily in Tyler Client User Conferences around the country. All these channels of communication provide us with the insight to develop both a near-term and future product roadmap that we can articulate clearly to our clients.

Enforcement Mobile

Tyler's roadmap for Enforcement Mobile is focused on continued product evolution and delivering features that improve officer convenience, operational efficiency, and safety for everyone involved, from officers and deputies to violators. Over the next year, we prioritized enhancements to our cloud operations as part of a broader Tyler Public Safety initiative. While these improvements are largely back-end developments that clients may not directly see, they strengthen the reliability and scalability of the platform.

Additionally, we are working on key functional capabilities such as the ability to read mobile IDs within the software and enabling paperless delivery in jurisdictions where this is permitted. Interoperability between Enforcement Mobile and DMV systems across the country is continually enhanced and evolving to meet the needs of our clients.

Our product team continually evaluates new innovations and feedback to identify opportunities that address emerging agency needs and improve the overall effectiveness of the solution, and we're looking to partner with WVDOT to do so. Rest assured that Tyler's Enforcement Mobile will continue to be the leader in the market for many years to come.

Sustainable and Scalable Data Platform for Statewide Data Needs

Tyler has spent many years assisting IT departments in breaking down data silos across diverse data sources and proactively managing data for internal use. Our data and analytics software has been in use since 2010 in states, large cities such as New York and Chicago, and counties across the country. We are continuously developing the capabilities of our connected data clouds, including conducting regular security audits to maintain our FedRAMP certification and compliance with security and accessibility standards such as CJIS. Product-level developments on our current roadmap include:

Continuous Improvement in Tabular Reporting Capabilities

The BI tools native to our data clouds have traditionally focused on enabling our customers to tell stories with data; this has created an emphasis on charts, data visualizations, embedding images and videos, and displaying narrative content. Our native BI tools can also display content in tabular format (i.e., as tables or spreadsheets). Clients, especially those working in the justice system, have expressed a desire to grow the formatting options in our tabular reports, including advanced conditional formatting, the ability to edit every aspect of a table, and highly configurable printing and presentation options. Delivering an increasingly strong suite of tabular reporting capabilities is a focus, and we will of course continue to expand and support those capabilities throughout the coming years.

Commitment to High Performance Querying and Aggregating “Big Data”

As our clients' needs grow with the introduction of new systems and the increased collection of important data in legacy systems, we are committed to continuously evolving our ability to performantly query large amounts of complex data to match the highest performance standards available in the analytics industry. We are in constant conversation with our partners at AWS and other analytics companies, ensuring that we are using best practices in processing large amounts of data and staying up to date with new technological options that can assist us in ensuring that our clients are able to utilize, search, and process all their data quickly and efficiently. In 2025 we took a significant step towards ensuring that our clients utilizing extremely large datasets (hundreds of millions to billions of rows) can enjoy high-performance querying by standing up a new back-end query engine which shapes queries on a column-level rather than a row-level, as well as utilizing AWS technologies, such as Redshift, which allow for faster query processing. We will continue to expand and grow our ability to offer our clients the highest performance capabilities for processing large data and ad hoc queries in 2026 and beyond.

Augmented Data Management Features Utilizing Artificial Intelligence Tools

Tyler is exploring ways in which artificial intelligence can be used safely and responsibly to augment our clients' daily work. In the data management space, we are investigating ways to use artificial intelligence to search, model, query, and shape data, and plan to pursue investments in artificial intelligence capabilities which remove manual work and answer key questions for data analysts and data program administrators.

Engagement Builder is an internal Tyler product that will be heavily utilized for form inputs and configuration of user input options. It has a dedicated product team which develops new features according to our product roadmap and deployed as part of scheduled monthly releases. The roadmap is informed by client and user feature requests, continuous improvement, and technology advances.

This year's focus is on modernization and insights that help agencies achieve more value from the platform. These improvements represent the final phase before our next generation of services.

- Modernized Design – Engagement Builder's move to Bootstrap 5 delivers cleaner layouts, stronger accessibility, and a consistent design foundation across Tyler platforms.
- Smarter Automation – New APIs will let form submissions directly trigger workflows, supporting advanced automation scenarios like those powering recent state court projects.
- More Reliable Calculations – Builders will gain better control over null/empty values, making forms more predictable and easier to manage.
- Better Insights – Engagement data will flow into Tyler Integrated Reporting (TIR), enabling agencies to view adoption and usage dashboards without extra configuration.

First Half of 2026. The first quarter of 2026 introduces the new Data Sources foundation, giving system administrators more power, scale, and flexibility in how data is managed inside Engagement Builder.

Key highlights include:

- Schema Editing – More control over how data is structured, making it easier to align with existing systems.
- Primary Keys & Debug Tools – New options will improve reliability and give builders visibility into how integrations are working.
- Caching Overhaul – Smarter caching will improve data source performance and prevent latency, even helping partner APIs respond more efficiently.
- Flexible Integrations – Expanded configuration options will make it easier to connect to external services, unlocking broader use cases.
- Data Objects & New Data Table Control – A faster, row-based way to display and use data, replacing field-by-field approaches. This not only simplifies building but also brings stronger caching, better performance, and improved mobile responsiveness.
- Evergreen Data Sources – A new data source type will support long-lived, authoritative data (“source of record”) for high-value use cases, making it easier to manage structured, reusable data at scale.
- API Functions – Reusable functions will make it easier to call APIs consistently from both forms and workflows, enabling more flexible and dynamic service design.

Second Half of 2026 & Beyond. Looking ahead, the focus shifts to expanding workflow, automation, and reusability across the platform. These enhancements will prepare for higher scale, more complex solutions, and faster delivery.

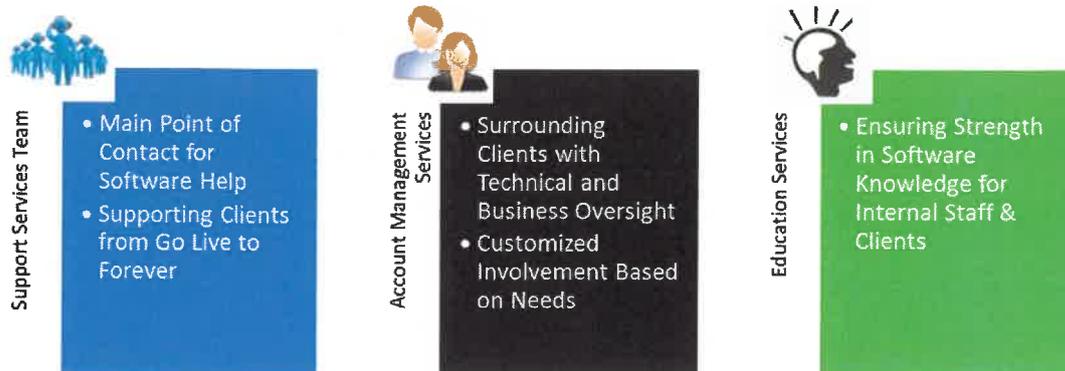
- Workflow Without Limits – A refactored workflow engine will introduce activity-level isolation, richer logging with subscribe-able events, and a new processing model that scales throughput dramatically. The result: more reliable processes that agencies can monitor and trust at any scale.
- Custom PDF Generation – Builders will gain the ability to design and generate fully personalized PDFs directly in workflows, supporting letters, approvals, and more.
- Data Objects in Workflow – Building on the early 2026 updates, workflows will be able to use data objects for decisions and outputs, including personalized PDFs.
- Reusable Solution Templates – Builders will be able to package and share complete service templates—including forms, workflows, and data—making it easier to replicate solutions across departments or jurisdictions. This will reduce implementation time, lower costs, and ensure consistency.

One Tyler Roadmap – 2030 Vision for Connected Communities

All of Tyler remains committed to its 2030 vision, which will focus primarily on delivering even more value to our clients and increasing supportability of existing and new offerings. One of our core strategies for doing so is moving to a cloud-first posture, which will allow us to upgrade products more efficiently and frequently, move our clients to the most secure data environments commercially available, and integrate associated products more effectively. We also plan to continue unifying our service and support models so that client services across Tyler are seamless and effective. Additionally, we are committed to making sure each of our products are best-of-breed and designed to work together, so that our clients can have a truly connected experience when utilizing Tyler products.

Support Overview

Tyler recognizes how important ongoing success is to our clients; therefore, we employ a team approach. To ensure success we surround our clients with a diverse team made up of the following components:



Client Success is a key component of your proposed public safety software solution. Tyler understands that in order to retain “Clients for Life” we must do more than keep our software and services up to date with technology and industry trends and requirements. To keep clients satisfied over the long term, we must provide the superior ongoing support our clients need to ensure that they get the most value out of their solutions. After all, in the overall solution lifecycle, your relationship with us will likely be the longest.

The Client Success team at Tyler strives to help each of our clients become expert consumers of their solution. We understand that each client’s solution is tailored to meet their unique requirements. We will work to build a relationship with each client that includes an understanding of their system and operations. Not only does this help us provide better support to each client on an individual basis, but it also helps us assist other clients with similar requirements or issues.

Support and Maintenance

PLEASE NOTE: Tyler does not modify its Service Level Agreement (“SLA”) or Support Call Process (“SCP”) for any client and maintains the same SLA and SCP for all clients. Included with this Proposal Response is a copy of Tyler’s SLA.

Tyler prides itself on exceptional customer service and support after the sale. Our Toll-Free Enforcement Mobile Support Center Hotline is available 24x7x365. Using our web-based technology we offer the most comprehensive maintenance program in the industry. As long as the customer stays current with the annual maintenance contract, all of the following will be provided for no additional charge.

Tyler provides two levels of technical support, via phone/chat and online support portal, to ensure that all issues are handled in an expedient manner.

For our larger clients such as WVDOT, Tyler will assign a Customer Service Account Manager (CSAM), who will be the direct point of contact for the State.

Support Services. During the term of the Agreement, Tyler will provide the support services to maintain the Covered Software in good working order, keeping it free from material defects so that the Covered Software shall function properly and in accordance with the accepted level of performance as set forth in the License Agreement. The Support Center Hotline is available 24x7x365.

Remedial Support. During the term of the Agreement, Tyler will provide support for those experiencing an error, defect, malfunction, or nonconformity in the Covered Software.

Severity	Tyler's Response
<p>Severity 1. Produces an emergency situation in which the Covered Software is inoperable, produces incorrect results, or fails catastrophically.</p> <p>* Note: Severity 1 cases must be submitted by PHONE in order to guarantee a prompt response.</p>	<p>Tyler will provide a response by a qualified member of its staff to begin to diagnose and to correct a Severity 1 problem as soon as reasonably possible, but in any event a response via telephone will be provided within one (1) hour. Tyler will continue to provide best efforts to resolve Severity 1 problems in less than forty-eight (48) hours. The resolution will be delivered to Licensee as a work-around or as an emergency software fix. If Tyler delivers an acceptable work-around, the severity classification will drop to a Severity 2.</p>
<p>Severity 2. Produces a detrimental situation in which performance (throughput or response) of the Covered Software degrades substantially under reasonable loads, such that there is a severe impact on use; the Covered Software is usable but materially incomplete; one or more mainline functions or commands is inoperable; or the use is otherwise significantly impacted.</p>	<p>Tyler will provide a response by a qualified member of its staff to begin to diagnose and to correct a Severity 2 problem as soon as reasonable possible, but in any event a response via telephone will be provided within four (4) hours. Tyler will exercise best efforts to resolve Severity 2 problems within five (5) days. The resolution will be delivered to Licensee in the same format as Severity 1 problems. If Tyler delivers an acceptable work-around for a Severity 2 problem, the severity classification will drop to a Severity 3.</p>
<p>Severity 3. Produces an inconvenient situation in which the Covered Software is usable but does not provide a function in the most convenient or expeditious manner, and the user suffers little or no significant impact.</p>	<p>Tyler will exercise best efforts to resolve Severity 3 problems in the next maintenance release.</p>
<p>Severity 4: Produces a noticeable situation in which the use is affected in some way which is reasonably correctable by a documentation change or by a future, regular release from Tyler.</p>	<p>Tyler will provide, as agreed by the parties, a fix or fixes for Severity 4 problems in future maintenance releases.</p>

Remote Connectivity. As part of the Enforcement Mobile Software Maintenance Agreement, Tyler uses a third-party secure unattended connectivity tool called Bomgar to remotely log into the device for maintenance and support. From deployment, implementation and on to support, Tyler has the ability to jump on a session at a moment's notice to provide quality customer service speeding up processes; greatly reducing risk to the implementation and accelerating our ability to respond to issues.

System Monitoring. Tyler offers a full support self-service portal where authorized users can monitor logs, system notifications, etc.

Issue Management. Our mission is to deliver superior service by providing a timely response, issue resolution and operational support, resulting in a high level of client satisfaction. Unlike some companies who outsource their application support to a third party, Tyler offers customer support services provided by our in-house experts.

Transparency is important; that's why every support incident is logged into Tyler's Customer Relationship Management System and given a unique incident number. This system tracks the history of each incident, and each incident is assigned a priority number, which corresponds to your needs and deadlines. Clients can track the progress of these incidents online using Tyler's support portal.

Tyler provides online and continuing education resources for our clients, including but not limited to the following resources.

- Tyler Search – an online query tool that provides answers for your questions by culling through all Tyler's online resources using Knowledge Centered Service
- Tyler Knowledgebase – a documentation library in a single, easily accessible location
- Tyler Community – Tyler's online forum available 24/7
- Tyler Release Management Console – shows all release version information, with a summary of each release and associated enhancements, open, closed and non-critical issues
- Online Help – context sensitive field help and procedural information to assist your team in completing program tasks
- Answer Panel – as you begin entering your case details, Tyler Search presents results in the panel that match your question; answers provided are the most relevant to your question, regardless of the source of the information.
- Phone – Tyler provides a dedicated 800 number that places no limits on who from your team may contact Support or the number of calls placed
- Annual Conference – Tyler Connect features online courses taught by Tyler subject matter experts, hosted in a different city each year

Updates and Upgrades. Tyler provides an evergreen product that incorporates new features, new technologies, and new platforms. This evergreen product management philosophy is part of Tyler's corporate culture and reflects our long-term commitment to our customers. Using our web-based technology we offer the most comprehensive maintenance program in the industry. As long as the client stays current with the annual maintenance contract, we will make any configuration change to any part of the solution (including updates requested by the Courts or the Legislature) at no additional charge. Our 'No Change Order' policy will ensure that our clients will continue to have a relevant and superior solution for many, many years and will save thousands of dollars in the future.

Part of our strategy for providing outstanding support is keeping all our clients on the current version of software. Any time we release major or minor updates to the software, that software is updated to the server and automatically downloaded to all devices (with no IT intervention). We typically provide minor releases at least once per month with major releases once per quarter.

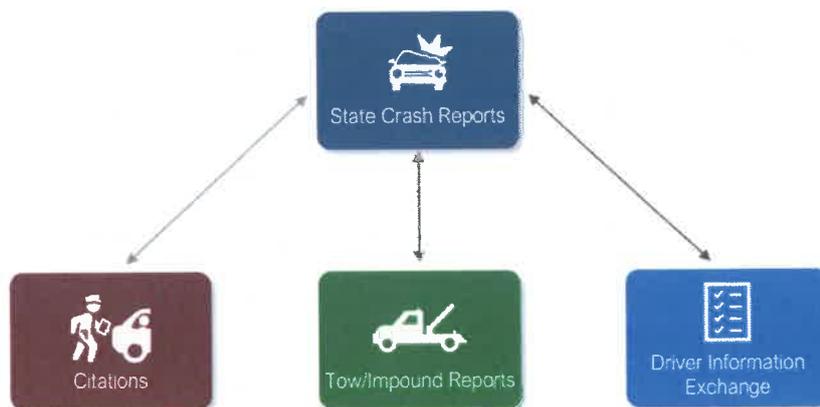
4.2.1 Goals and Objectives

4.2.1.1 Replace WVDOT's legacy vehicle crash reporting and e-citation systems with a modern vendor-provided and supported web-based application that improves business process

efficiencies with little to no interruption to the State's crash reporting and citation tracking business processes and is also scalable and responsive to change.

Tyler Enforcement Mobile's electronic citation and crash reporting solution is known throughout the industry as the leader in the market. Not only does Enforcement Mobile provide a **device-independent solution** that can be used on handheld, laptop, tablet, and cellular devices, it is a **comprehensive solution** that covers the full gamut – from data capture to processing to transmittal straight into any system you'd like. From citations to full-service crash reporting, tow, stop data, code enforcement, and much more, Enforcement Mobile offers a complete toolkit for officers in the field.

Tyler's Enforcement Mobile Solution offers an integrated solution of comprehensive applications designed to resolve WVDOT's needs today and in the future. **All of our modules work together, and data only has to be entered once** – from Crash Reports to Citations, Tow/Impound Reports, and Driver Information Exchange forms. In fact, data from person and vehicle returns, GIS map locations, and third-party systems can be used to auto-populate any Enforcement Mobile module.



Following are just a few of the many benefits that Enforcement Mobile offers:

- **Hardware Agnostic** – runs on any device, laptop, tablet, cell phone, etc. with an iOS, Windows, or Android operating system.
- **Network Connection Not Required** – the officer entering the information in the field can save the citation/crash record to the device and upload it once connectivity is established.
- **Interfaces and Integrations** – interfaces with any third-party system or database and integrates with any Tyler solution at no extra fee; take advantage of existing integrations with other systems/databases.
- **Customization** – every aspect is configured to meet your agency's exact specifications.
- **Workflow** – custom workflows as defined by the agency, with approval queues.
- **Expandability** – add users, devices, and functionality at any time.
- **Once and Done Data Entry** – officer only has to enter data once; it can be used by any Enforcement Mobile module.
- **Common Identity Management** – supports single sign-on and multi-factor authentication (MFA).
- **Intelligence Multiplier** – helps command by providing real time information on where resources can be best directed.
- **Produces accurate, relevant data** that meets reporting requirements and facilitates trends analysis.
- **Meets state/federal reporting requirements** for demographic stop data, MMUCC Version 6 standards, community engagement, traffic safety grants and more.

- **Provides an integrated software solution** that can stay ahead of the constantly changing environment, making jobs easier for officers, agencies, and citizens.
- **Increases officer safety** by minimizing the number of trips between the subject's car and the officer's car during a traffic stop.
- **Increases productivity** by dramatically decreasing the time required to complete the citation, crash report, etc., and by improving the ease with which the data are synchronized – both uploading records to the central server for processing and downloading any changes or updates to the software.
- **Increases efficiency** through improved accuracy of data entry.

Our solution includes a robust back-end capability that is not found with other solutions. It is the only one of its kind built on an enterprise architecture that allows it to be quickly and easily configured to meet the State's exact specifications, from field and screen layouts to customized workflows and business rules. The Enforcement Mobile Solution is an **end-to-end, turnkey solution** which provides tremendous flexibility, a high level of data security and integrity, and virtually unlimited scalability for the future. We provide the mobile devices and peripherals for the officers; the **web-based back-end software for administration, central review, and reporting**; and court-specific features for standardizing all record processing using our web-based server. With Enforcement Mobile, additional features, interfaces, and users can be added at any time. It is scalable and virtually unlimited.

Our success is based heavily on the fact that our system has been designed by the officers themselves. We employ a highly collaborative approach to implementing our solution, and we hire off-duty police officers to conduct our training. With our extensive experience, we understand the nuances of the law enforcement community. This experience minimizes the risk to the agency by not having to 'reinvent the wheel,' thereby limiting the customizations to the user interface and providing the officers with a usable system very quickly.

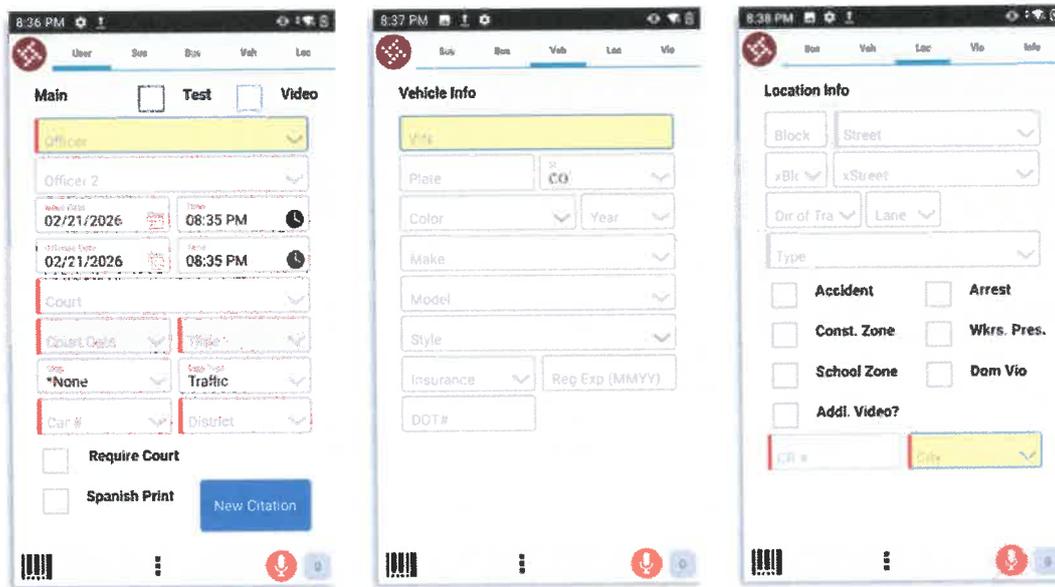
Electronic Citation

Tyler's Enforcement Mobile eCitation provides the most technically advanced mobile electronic citation solution on the market today. All of our solutions are built on an extremely powerful architecture that provides complete flexibility for our customers with no required changes to existing IT infrastructure.

Instead of the officer hand-writing citations and then having that information re-entered into the RMS and/or court systems, the officer enters the information on an electronic device, and the citation information is automatically uploaded into whatever system the agency defines. Enforcement Mobile allows for the entry of citation data through a number of different methods including swiping of the mag stripe on a DL, scanning VIN barcodes, scanning registration stickers, QWERTY keyboard, touch-screen, video, audio, photo, and fingerprint capture. All of the rules surrounding the data entry, editing, reporting, and printing are defined and controlled by each agency. We are actively developing integration for Mobile DL (mDL).

The data entry screens are easy to navigate because our system has been designed by the officers themselves. Every aspect of the solution is configured to the customer's exact specifications. Our goal is to make the process as efficient, effective, and safe for the officers as possible.

Following are sample screenshots of a typical Enforcement Mobile eCitation module running on a rugged Android device. *As previously stated, the exact layout, field names, etc. will be configured according to the agency requirements.*



Citations can be printed on 4" or 8.5x11" paper. Hardware is not included in the scope of this project, but we can provide recommendations to individual agencies based on our experience with over 1,800 agencies, as needed.

Stop Data. With Enforcement Mobile's Stop Data module (optional), all demographic and related data required by the State is collected and safely stored. Agencies can then export this data to make it available for standard or ad hoc reports. The Stop Data module shows all required data fields, ensuring officers collect the data they need, no matter what. Users save hours of work with the automated testing feature, which automatically sends records to the DOJ to confirm readiness.

Stop Data collection can also be integrated within the eCitation task, thereby eliminating the need for officers to open a separate module to collect the data during a traffic stop. This functionality is available for an additional fee to agencies.

Web Citation Entry Screen. The web entry screen is designed to assist desk officers and other personnel familiar with the paper forms and who may not enter citations and crash reports in the field. It has Scene, Vehicle, Non-Motorist and Witness pages and the user can tab through them to enter data.

Edit Record
✕

Submit **Cancel**

Status: * -Select- ▼

Issue Date:

Offense Date:

Court Date:

Incident Number:

County: -Select- ▼

Courtroom: -Select- ▼

Start Time:

Interpreter: -Select- ▼

Location: -Select- ▼

NCAWARE Case:

Driver's License Division of Criminal Information

Void Reason: -Select- ▼

Citation Number: Test

Issue Time:

Offense Time:

Court Weekday:

End Time:

Other Language:

Agency Name:

Select Manual Courtroom Other

Officer Information

Officer:

Defendant Information

DL State: **DL Class:**

DL Expires: CDL

Last: **First:** **Mid:**

Address: **County:**

City:

State: **Zip:**

DOB: **Age:**

DL #: **SSN:** **Suffix:** -Select- ▼

Sex: **Race:**

Additional Information

Home Phone: **Parent/Work Phone:**

Business Name: **Address:**

City: **State:** **Zip:**

Condition and Location Information

Area: -Select- ▼ **Weather:** -Select- ▼

Visibility: -Select- ▼ **Traffic:** -Select- ▼

Measurement Method: -Select- ▼ **Speed:**

Observation Method: -Select- ▼ **Fatalities:**

Regardless of how the citations are entered, they are uploaded to the central server and processed in the same way according to WV DOT's specifications.

4.2.1.2 Provide a vehicle crash reporting solution that fully supports crash record data collection by law enforcement in the field in compliance with the National Highway Traffic Safety

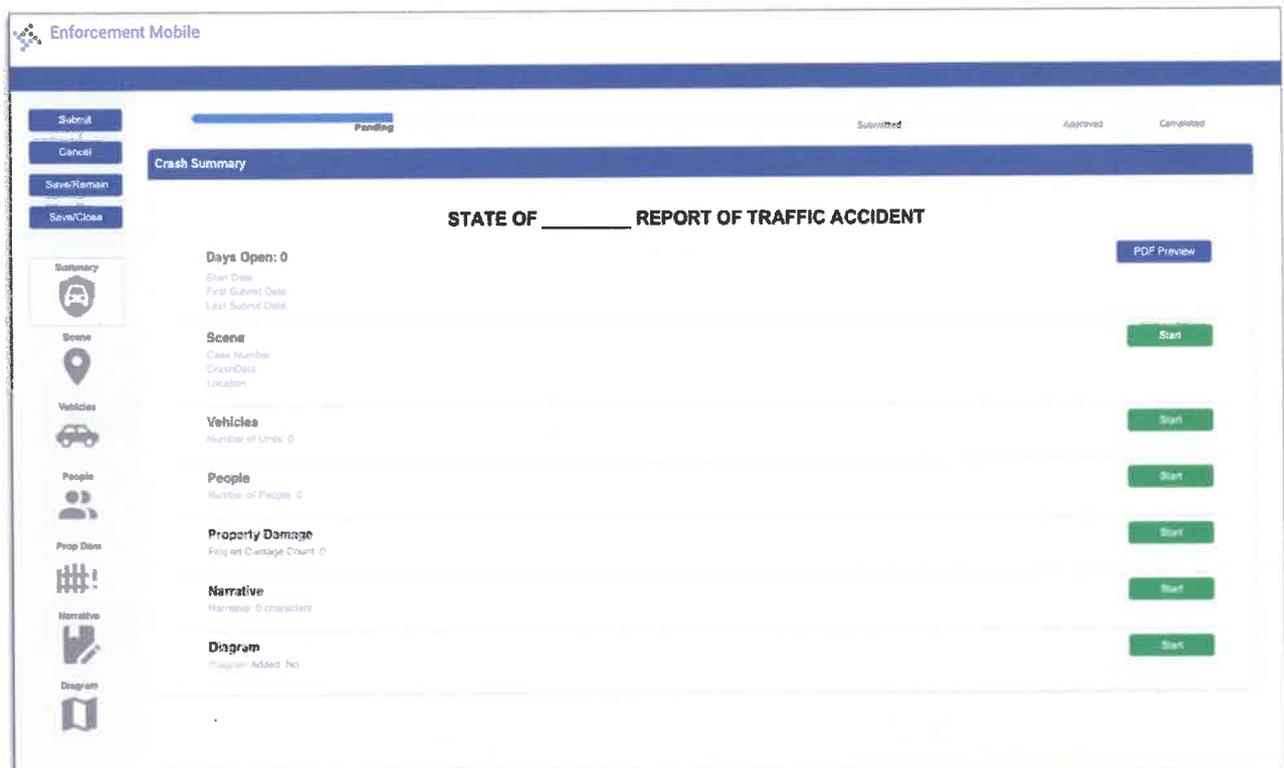
Administration (NHTSA) Model Minimum Uniform Crash Criteria (MMUCC) Sixth Edition, while providing flexibility and scalability to meet future requirements.

Crash Reporting

For law enforcement, saving time can mean saving lives. When responding to a traffic accident, officers are required to collect data and write detailed crash reports while trying to clear the scene quickly and make it to their next call for service, and a mobile solution such as Tyler Enforcement Mobile eCrash Reporting can make things much simpler and more streamlined.

Enforcement Mobile offers multiple options for entering crash reports – via the Enforcement Mobile app, on a mobile device or MDT, or via the web-based citation and crash report forms. The mobile screens are configured to meet the State’s exact specifications and allow the agencies to capture all of the data required by the State form. Regardless of the layout of the screens, the output will be in the State of WV-approved 17-c format.

Web Crash Entry Screen



Crash reports created via the Enforcement Mobile web crash form or in the field using the Enforcement Mobile eCrash app will be MMUCC-6 compliant according to the State’s adoption of the MMUCC standards. As NHTSA and the State’s goals for traffic safety continue to evolve over time, the proposed solution is flexible, making it efficient and effective to adopt future changes and updates to MMUCC standards. Additionally, Tyler maintains engagement with ATSIIP to remain current with all new trends and regulations.

The Tyler EDP maintains metadata and lineage tracking for all datasets, providing visibility into source systems, transformation rules, and data refresh cycles. This ensures that every record, whether historical

or newly ingested, can be traced to its original source and version, supporting auditability and compliance with federal data management expectations. Data pipelines apply the same MMUCC- and NHTSA-aligned schemas and validation routines used during migration, maintaining long-term data integrity and uniformity across all reporting periods.

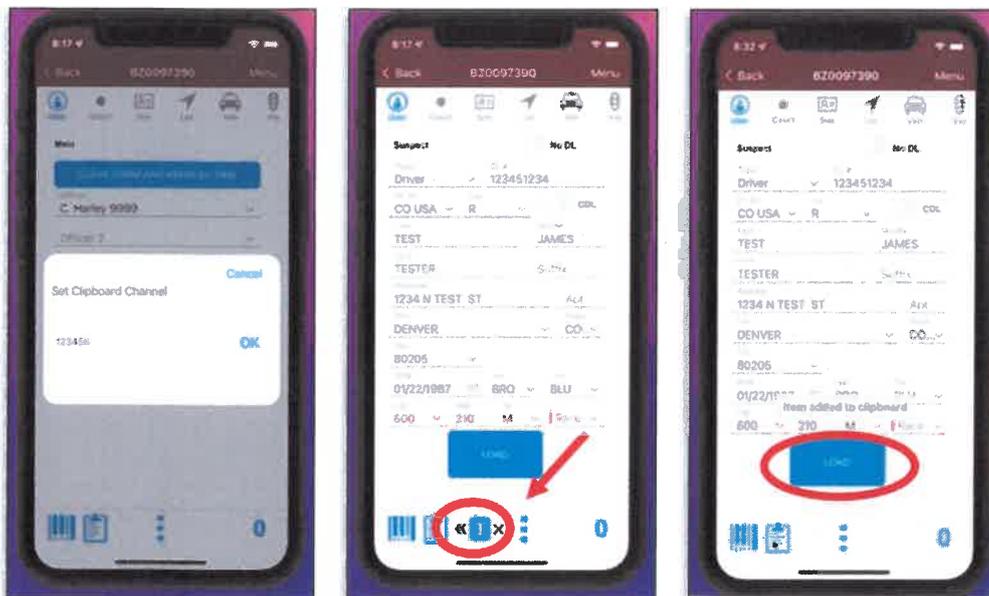
DataHub

Enforcement Mobile offers a channel share feature called DataHub whereby officers can use their mobile devices to scan bar codes and capture electronic signatures, save them to the clipboard, and complete the crash report or citation on a laptop. It also allows multiple officers to work the same crash scene, efficiently share information, and assimilate the collected data into one crash report.

The following screenshots show how DataHub works. Please note that while the following screenshots are for sharing citation data collected with a cell phone, the same applies to crash reports and can be completed on any device with a camera.

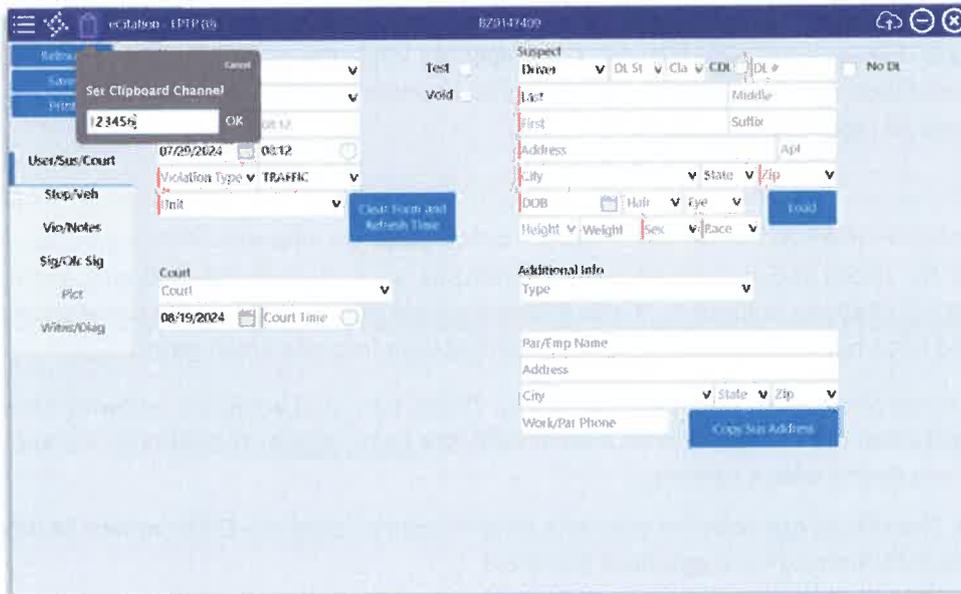
Mobile Device. The officer can scan the violator's driver's license using the Enforcement Mobile app on their cell phone (iOS/Android) or ruggedized handheld.

Set the Clipboard Channel (this is a free-text name of the clipboard upon which the DL information will be pasted) and then scan the DL using the barcode scanner. Clicking the **T** copies the scanned data to the designated clipboard channel, which is 123456 in this example.

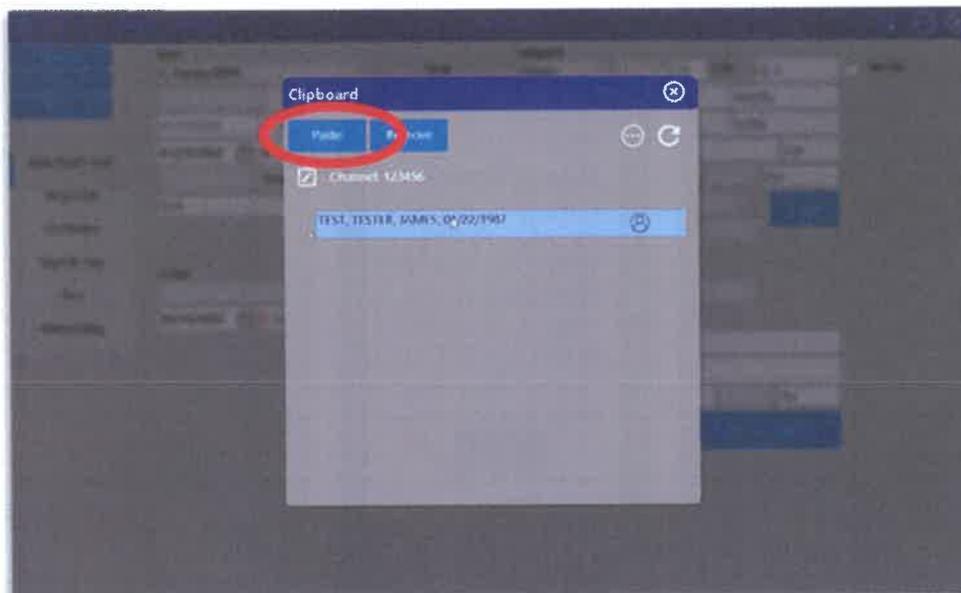


Laptop. At this point the officer can return the laptop and complete the crash report or citation using the Enforcement Mobile application.

The officer will begin a new citation and click on the User/Sus/Court tab. The officer can then click on the clipboard symbol **T** in the blue bar at the top of the window to set the clipboard channel to the same channel created on the cell phone.



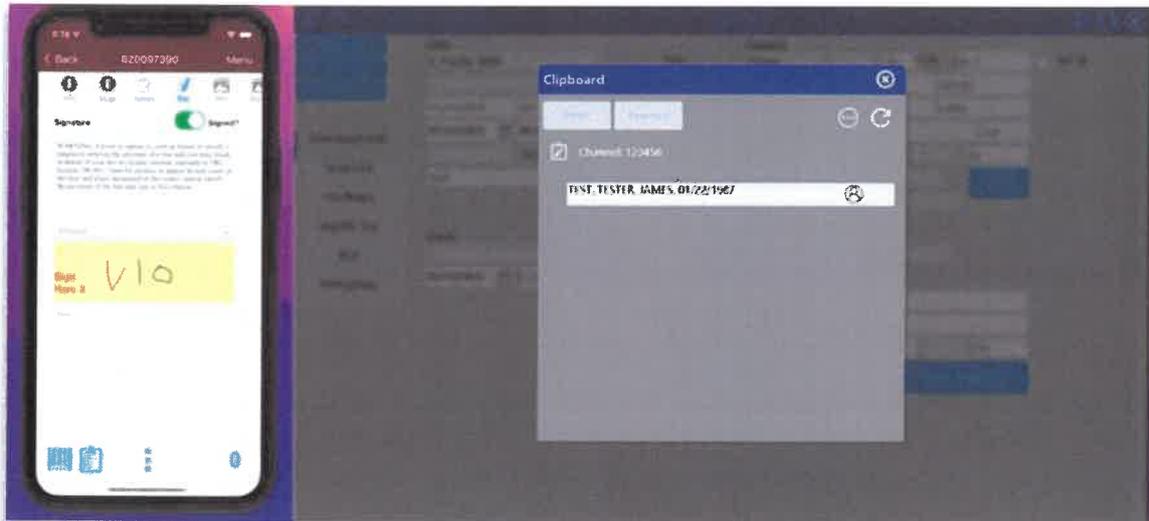
The contents of the clipboard appear and will auto-fill the Suspect information when the officer selects the record and then clicks Paste.

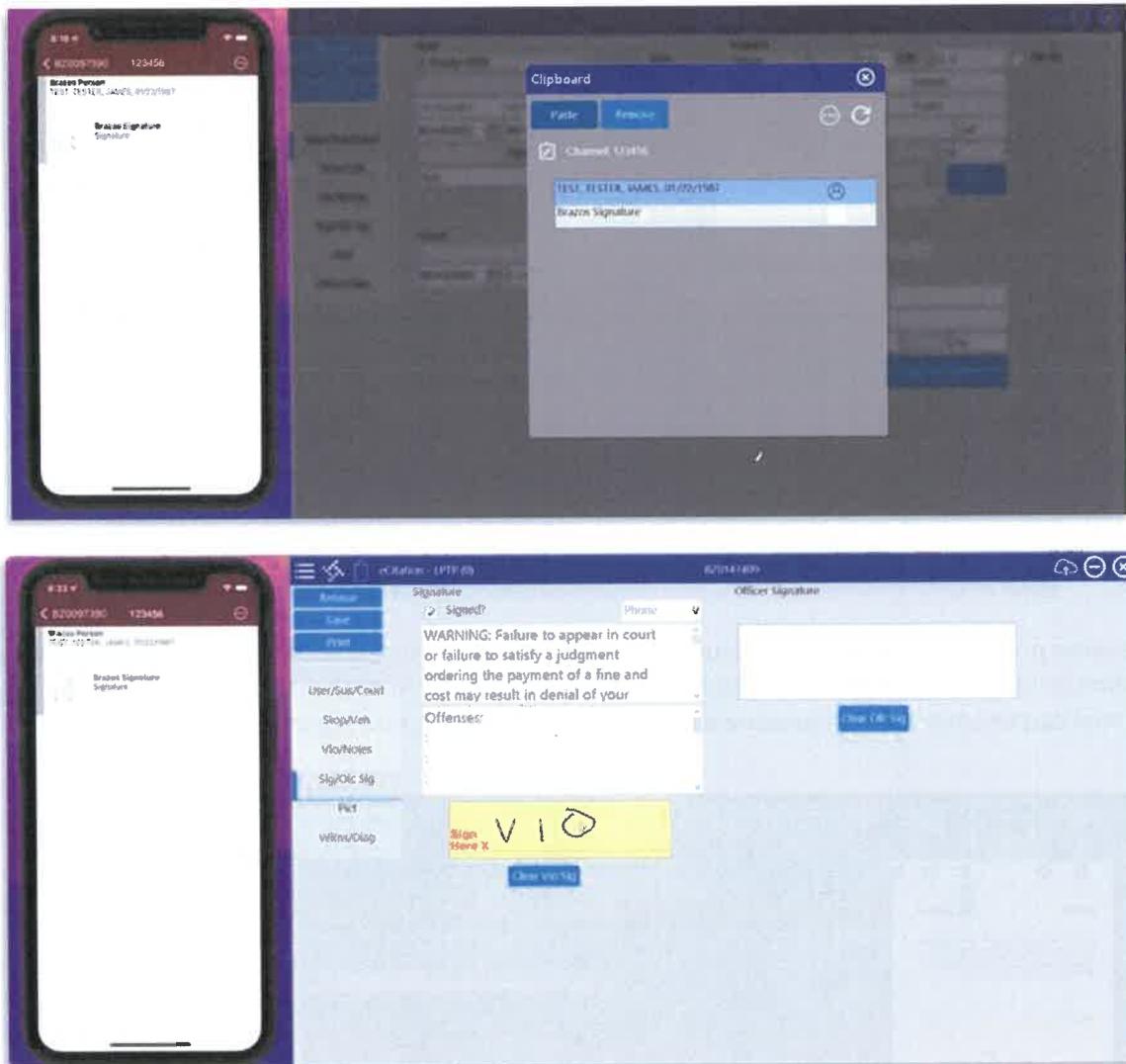


The screenshot shows a web-based form for entering citation information. The form is titled "eCitation - LPTP (0)" and includes a user ID "E00147409". The form is divided into several sections:

- User:** C. Harley 9999, Cite 2, Date/Time: 07/29/2024 06:12.
- Violation Type:** TRAFFIC.
- Unit:** [Dropdown menu]
- Court:** Court, Date/Time: 08/19/2024.
- Suspect Driver:** TEST, JAMES, TESTER, 1234 N TEST ST, DENVER, CO US, 80205, 01/22/1987, BRO, BLU, 600, 210, M, P, Ex.
- Additional Info:** Type, Payment Name, Address, City, State, Zip, Work/Res Phone.

The same process can be used to capture the violator's signature on the cell phone and save it to the citation or crash report created on the laptop via the Clipboard. Note that that same clipboard channel can be used for the signature as for the driver's license, VIN, registration, etc.





This functionality is included with the proposed solution for the State of WV.

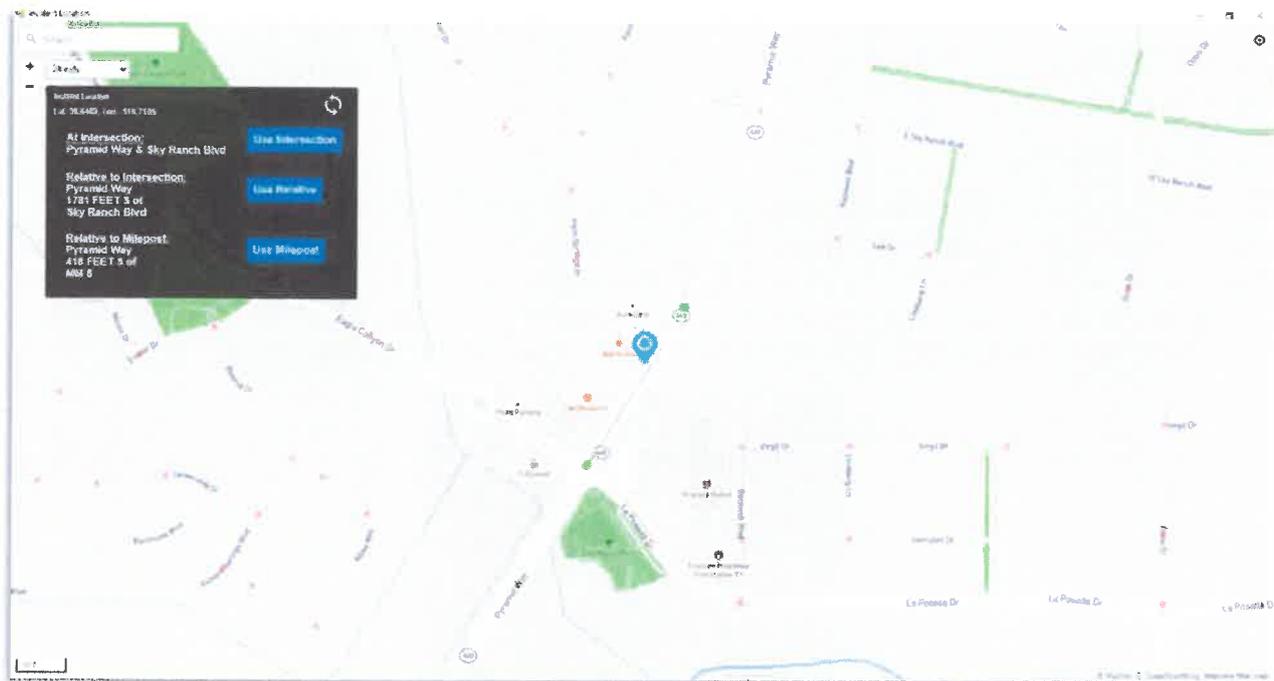
4.2.1.3 Provide a user-friendly method for law enforcement to identify the location of a crash or citation by placing a pin on a map, integrated with the WVDOT location referencing system (LRS), that will automatically locate the crash, with an opportunity for the law enforcement officer to override the location if required.

Enforcement Mobile can interact indirectly with WVDOT's LRS, ArcGIS, Esri Online or any other mapping source via our secure web services. This geolocation allows officers and administrators to easily and visually map an accident location utilizing GPS, ArcGIS maps, and geolocation. Likewise, when issuing a citation on a handheld device, the officer can utilize the native GPS functionality of the device and determine the latitude/longitude of its location.

A screenshot of a mobile application interface. At the top, there are two dropdown menus: 'Block' and 'Street'. Below them is a text input field containing 'xStreet'. Underneath that is a text input field with the coordinates '40.064094. -80.720820' and a blue button labeled 'GET GPS'. Below the coordinates is another dropdown menu labeled 'Record Type'. At the bottom of the form is a 'Test' button.

In addition, Tyler offers reverse geolocation capabilities allowing a user to tap a location on a map and determine the location of an incident. Once the lat/long coordinates are returned based upon the location that the officer selects on the map (or the intersection location), this can be compared to the LRS to populate road inventory information as needed.

The following screenshot is an example of geolocation on a laptop. After tapping a location or pin on the map, the officer can optionally import the nearest intersection, milepost, mile marker, latitude/longitude, etc.



4.2.1.4 Provide for integration with WVDOT systems, third-party systems, reading the barcodes available on driver license and vehicle registration cards, and the vehicle information number (VIN) to populate information on the crash report or citation to the extent possible, with an opportunity for the law enforcement officer to override the information if required.

One of the biggest benefits of using Enforcement Mobile is improved accuracy of data entry. With the data validations, error checks, autofill based on key data elements (as defined by the agency), and automated workflow routing that exist in Enforcement Mobile, citations and crash reports feeding directly into the court/RMS systems are much more accurate than those manually entered.

Data can be entered through a number of different methods including swiping of the mag stripe on a DL, scanning VIN barcodes, scanning registration stickers, QWERTY keyboard, touchscreen, video, audio, photo, and fingerprint capture.

Enforcement Mobile contracts with a leading VIN decoding provider that provides regular updates on the latest VIN standards for our software. When a VIN barcode is scanned, Enforcement Mobile solution parses the 17-digit VIN based upon the file provided by the VIN decoder. The resulting information is then used to auto-populate fields on the crash report and/or citation.

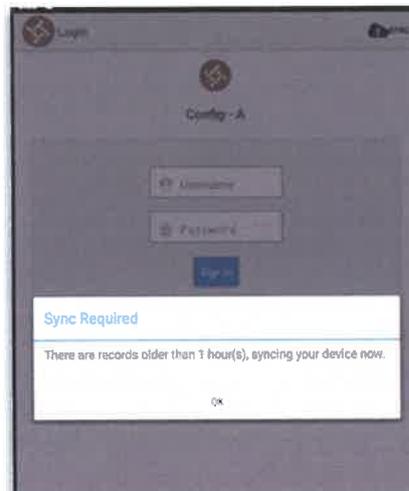
All of the rules surrounding the data entry, editing, reporting, and printing are defined and controlled by each agency.

4.2.1.5 Provide a solution that is designed to work in offline mode when required, with automatic synchronization to the database when the system detects that the user has returned to an online state.

Enforcement Mobile does not require network connectivity to work. The officer entering the information at the crash scene or issuing a citation on the side of the road can save the record to the device and upload it once connectivity is established. Note that creating crash reports and citations via the Enforcement Mobile web crash screen requires the user to have internet access as the form resides on the web.

Force Sync for Citations

To assist agencies with the issue of delayed delivery of citations due to devices not being synced on a regular basis, Tyler developed the Force Sync feature, which enables an agency to force a sync if records older than a certain date are still on the device. When an officer logs onto a device with existing citations that have not been uploaded, they will receive a pop-up message as shown below. The agency defines the timeframe during which the citations can remain on the device before being synced.



4.2.1.6 Provide for enhanced integration between the new crash reporting and e-Citation systems and other WVDOT and State systems, including the new West Virginia driver license system, vehicle registration system, and the West Virginia Unified Court System.

All of the Enforcement Mobile modules work together, and data only has to be entered once – from Crash Reports to Citations, Tow/Impound Reports, and Driver Information Exchange forms. In fact, data from person and vehicle returns, GIS map locations, and third-party systems can be used to auto-populate any Enforcement Mobile module.

Tyler’s integrated software solutions are designed to work together to make communities safer. Our proposed solution can interface with the State Vehicle Registration system and the future DMV system for the State. Should the State award the Driver Modernization contract to Tyler WV and Champ, we will work closely to integrate the two systems and provide the most seamless solution for the State.

Our assumption is that all officers will enter citations and crash reports via the Enforcement Mobile application or the included Web entry screens. These completed citations and crash reports will be transmitted from the EDP to the WV Citation and Crash Records databases at a frequency agreed upon by the State and Tyler. Once adjudicated, the updated citation status will be sent from the WV Citation and Crash Records Database to the WV Unified Statewide Court System database.

4.2.1.7 Provide the capability to manage the sale of crash reports, with the law enforcement agency having the ability to opt in to selling crash reports and establishing the price for the crash reports.

The Public Portal will be created using Tyler’s **Engagement Builder** tool, which is a cloud-native platform that can be used to both create citizen engagements (web forms, content pages, workflows, etc.) as well as branded web sites to present those engagements to citizens. Engagement Builder sites facilitate easy access to government services and information through a conversational interface, forms directory, and natural language search. Users can complete forms and applications as a guest or log in, which allow users to save, return to incomplete submissions, track progress through workflow, prepopulate recurring forms, and to view historic submissions and their artifacts. In fact, over 170 Engagement Builder applications are already deployed and used by West Virginians to interact and transact with their state government today. Citizens utilize Engagement Builder applications to get their Real ID, change their address with the DMV, and even report price gouging to the Attorney General’s Office.

The Public Portal will be a hub for citizen interaction with the program and a place to track and view their report requests. The Public Portal will provide users a mobile responsive and ADA compliant site to search, request and pay for collision reports. Per the RFP, payment will be collected via the State Treasurer’s Office. To date, Tyler has integrated 32 applications with the State Treasurer’s Office and processes more than \$50 million annually.

To service crash report requests, the Public Portal will connect via API to the crash report purchase repository. This will ensure a single source-of-truth for crash reports and offer a more seamless experience for all stakeholders. Requests received via the portal can be delivered digitally by leveraging this integration and configuring the workflow to enforce the applicable business rules and review tasks. The Public Portal will offer citizens a modern e-commerce experience and the agency a secure, modern, and automated sales and distribution channel.

4.2.1.8 Provide a robust and intuitive reporting solution that provides the State and law enforcement agencies with business intelligence functionality for reporting and auditing functions.

Enforcement Mobile offers a variety of reporting options to allow agencies to analyze crash data and make tactical decisions. These include ad hoc reporting, custom canned reports, and our robust Enforcement Mobile Analytics tool that provides users with a dashboard to view and analyze data from crash reports. In addition to environmental and road conditions, Enforcement Mobile captures fatality and injury severity information for all occupants involved in a crash.

Standard Reporting

Enforcement Mobile provides a robust management reporting capability for which the client controls the security access. Existing citation and crash data residing in any database, including legacy databases, can be imported into Enforcement Mobile. We work with each of our clients to determine the format and method by which the data can be converted. Once in the Enforcement Mobile system, the data will be searchable and available for reporting along with new data records created in the field.

Any photo, video, audio clip, scanned document, etc., can be added to the system and associated with a particular incident number (with the proper security access and workflow approval as defined by WVDOT).

Via the Enforcement Mobile web portal, PDF copies of citations in the exact format as the defendant received it can be retrieved and printed. This PDF is automatically generated when the citation or crash report is processed by the system.



Each and every report on the server allows for optional report parameters and sorting capabilities. The reports can be scoped by Beginning Date, End Date, Officer, Stop Results, Citation Number, Status, or whether there are Officer Notes or not. If a parameter is left blank then all records are assumed.

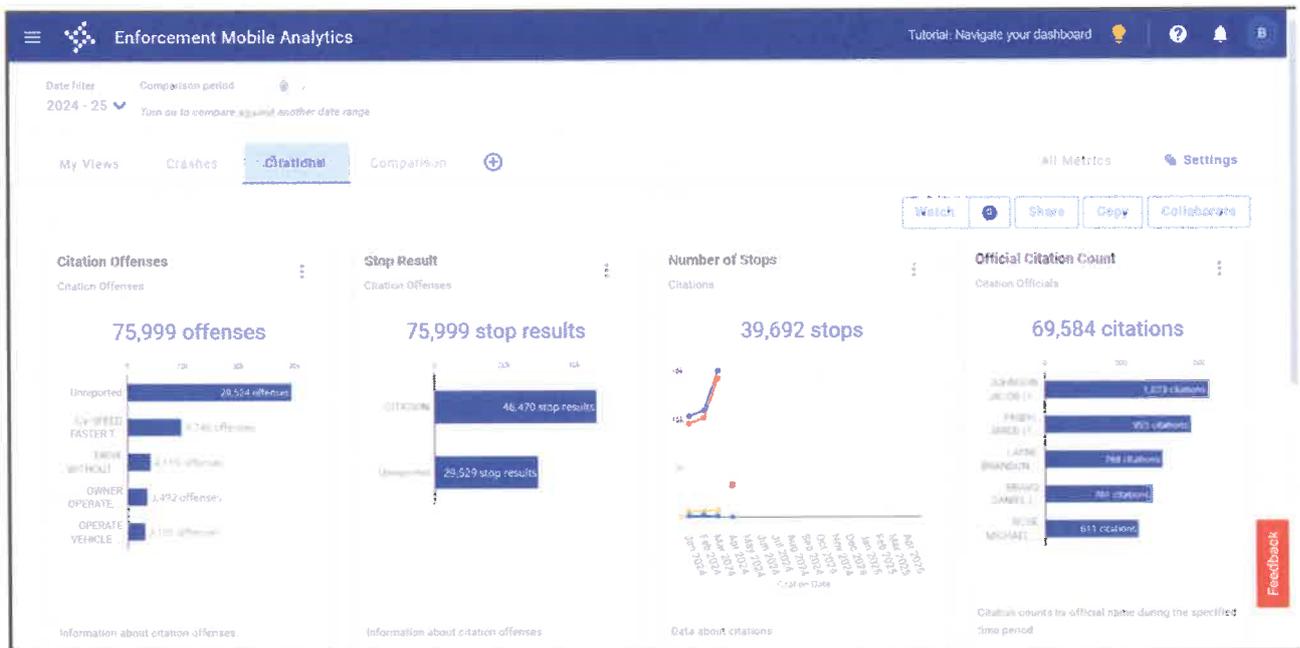
The following image is a screenshot from the Enforcement Mobile website report generator.

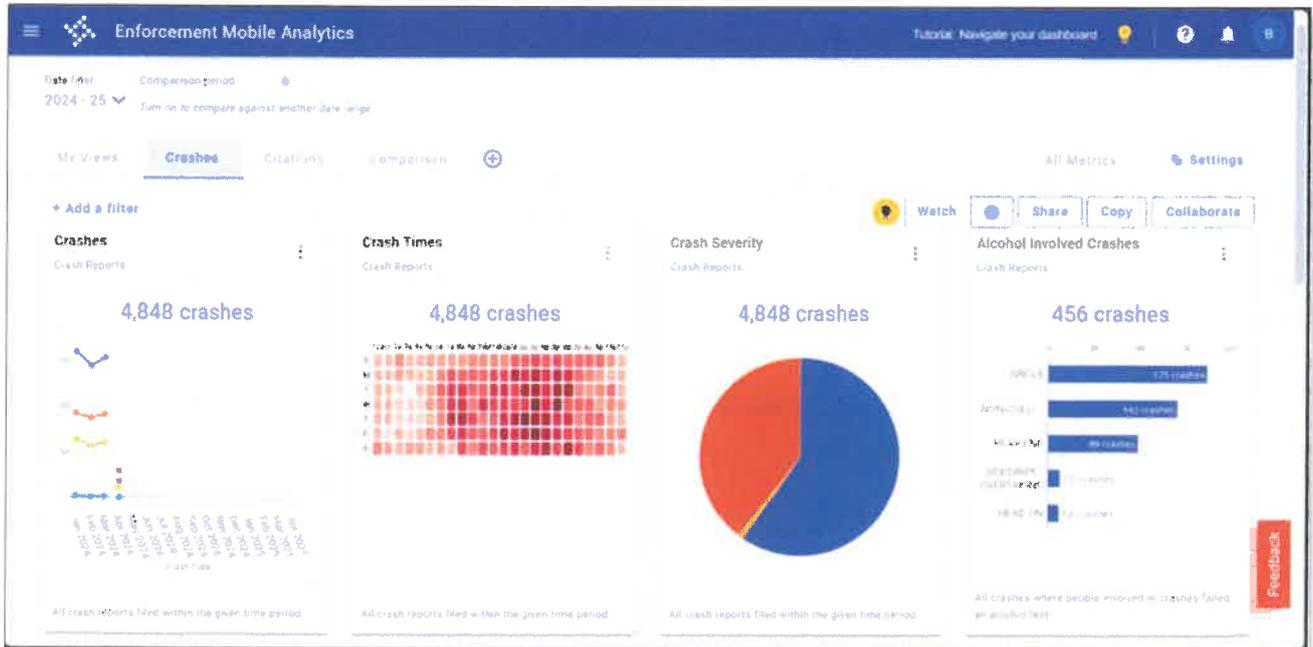
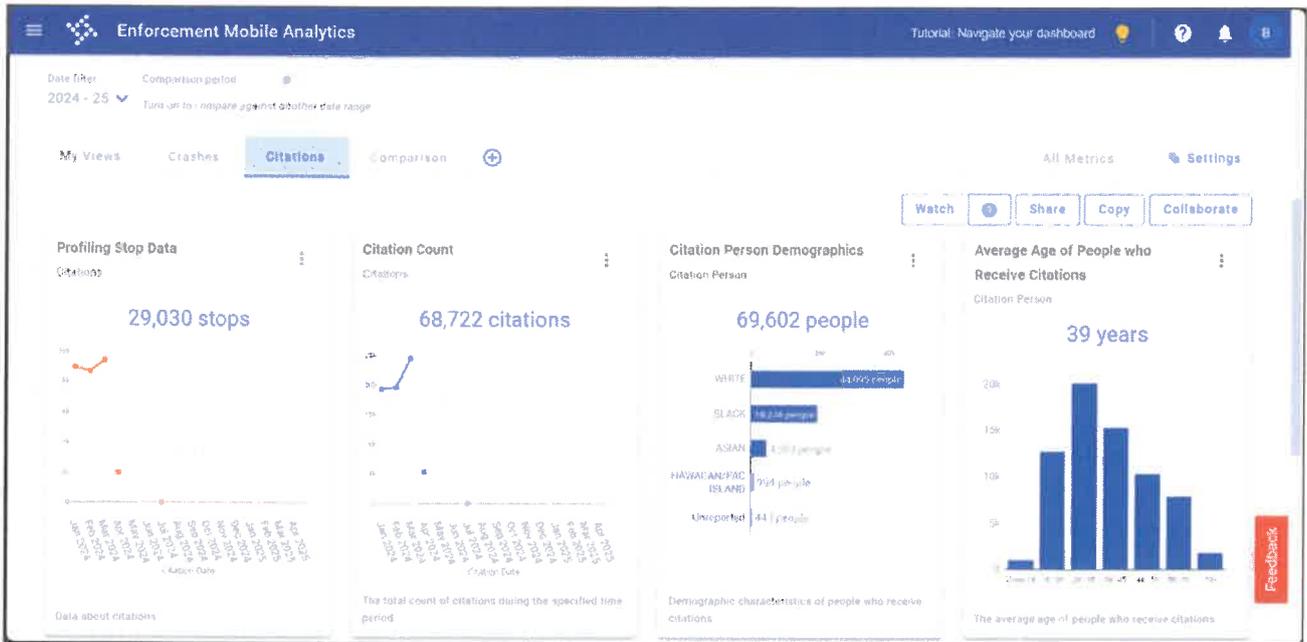


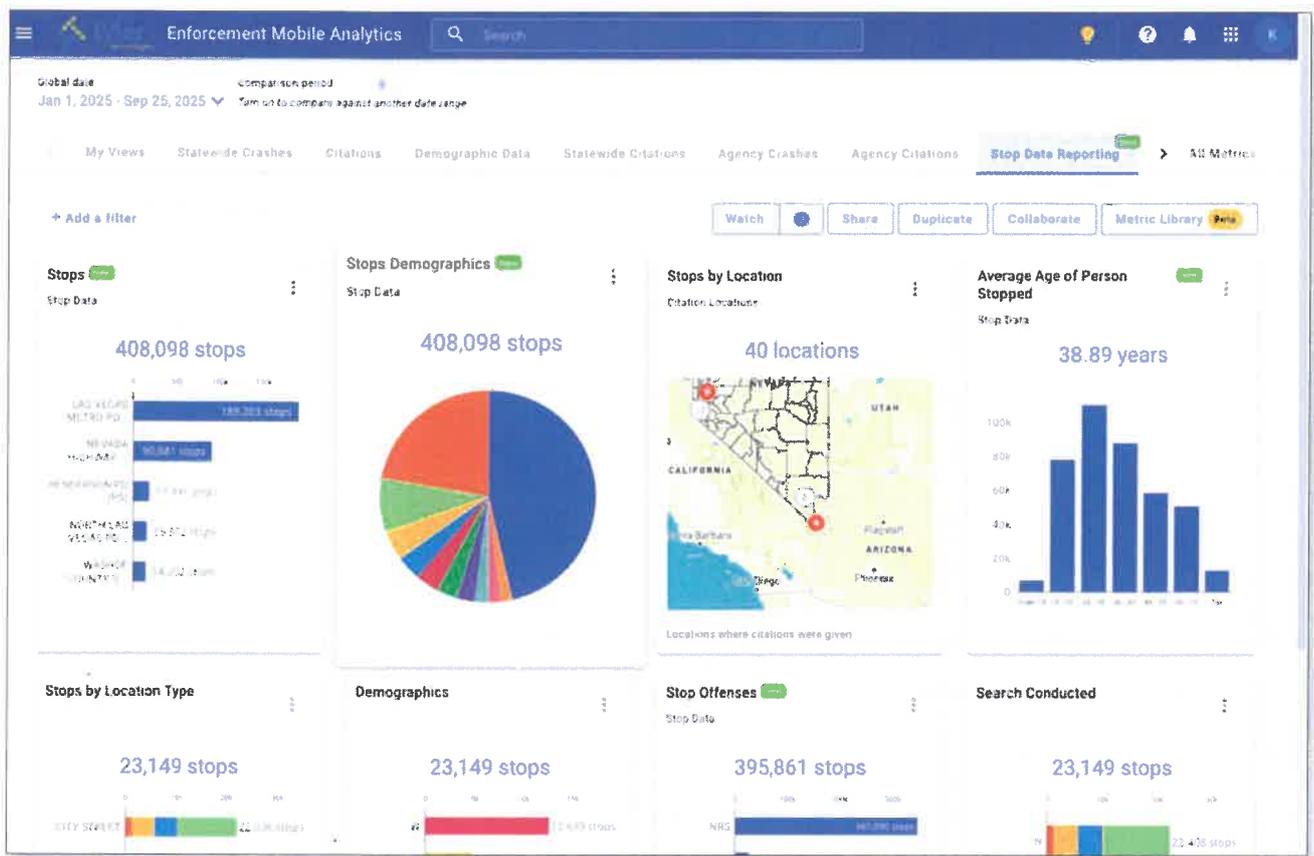
Enforcement Mobile Analytics

Enforcement Mobile Analytics (EMA) provides agency users with a dashboard to view and analyze data from citations, crash reports, Citizen Connect, and Stop Data. As an example, an agency can create multiple views using various data elements to discern locations and times/conditions where crashes are more prevalent so that officers can focus their enforcement efforts down to the minute.

Following are examples of EMA dashboards.







Citizen Connect

Citizen Connect allows citizens to gain transparency into what is happening on the roadways in their community. With Citizen Connect, community members have easy access to data that answers all their questions without exposing sensitive information.

For example, departments can choose what data elements the community can access to control the integrity of an investigation or protect the names and information of crime victims safely and securely. In addition, citizens gain access to a geospatial map — which simply means users see pins on a map of their community for geography-based views — to gain information about incident types and locations happening in the community.

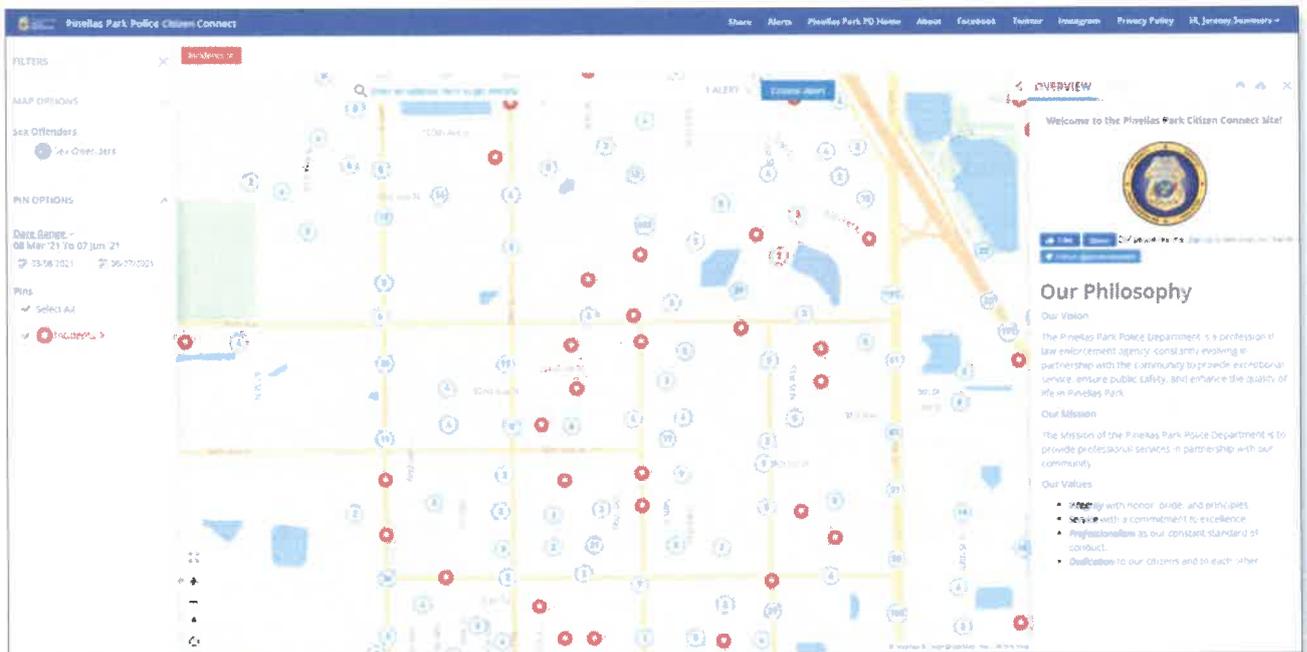
Citizen Connect benefits departments by improving communication with the community and reducing Freedom of Information Act (FOIA) requests by enabling citizens to use an online portal to become more informed about what's going on in their community.

Support staff, such as records administrators, also benefit from this technology since it reduces their workload and enables them to assist the department more actively.

Citizen Connect empowers agencies to:

- Improve transparency with the community by providing information at the discretion of public safety agencies

- Enable citizens to take an active role in community awareness by following crime details within Citizen Connect and asking data-backed questions of law enforcement
- Reduce workloads for records administrators by automating public FOIA requests



Flexible Ad Hoc Data Analysis Platform

In addition to the Enforcement Mobile Analytics dashboards, Tyler provides in-depth analytics via the EDP, which will provide the State with a centralized place for all approved data, ad hoc reporting, and traffic safety data analytics. The EDP creates a single enterprise-wide reporting structure for data by being able to integrate and merge multiple data sources and appropriately manage access to granular level data through highly customizable roles and permissions.

Additional data from other highway safety program sources can be imported into the EDP to provide WVDOT with a more comprehensive view of its traffic safety data ecosystem. There are a range of options to connect our platform to data and metadata. WVDOT can leverage their existing Extract-Transform-Load (ETL) tools and publish data and metadata to the platform via our publishing APIs. By using existing ETL capabilities, WVDOT can more rapidly integrate data into the EDP and ensure data lineage based upon existing processes, tools, and documentation. We offer numerous, pre-built connectors to ETL providers and offer a well-documented developer library. When an existing ETL is not available or becomes cost prohibitive, the Tyler EDP offers several options for connecting to metadata/data sources. Our platform includes an ETL tools along with Tyler Data and Insights Gateway Platform, an intuitive user interface for less technical users to create automations. Tyler Data and Insights Gateway platform has a library of connectors for the most popular databases and third-party applications such as: Microsoft SQL Server, Oracle, SQLite, PostgreSQL, AWS S3, Hadoop, Esri, Google Spreadsheets, and many more. The Gateway plugins connect directly to your data source and establish data automation.

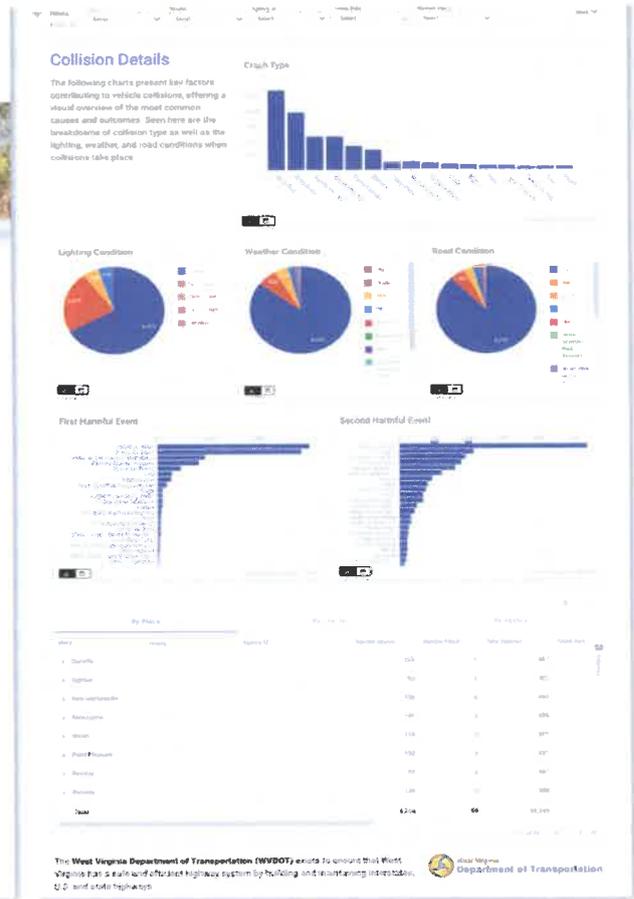
The EDP provides a self-service, single point of access to different data sources for traffic safety data across the region in a secure environment. The platform provides a visualization suite for data analytics that highlights critical assumptions, illustrates differential impact, identifies patterns, trends, and enables

strategic response to data. Using the Perspectives tool, WVDOT can create any number of reports and modify page layouts and branding components to align with specific use cases.

- **Provides for Data Context and Storytelling:** Perspectives is a story canvas that contains styles, themes, templates and content blocks to create custom stories, reports and dashboards. Users can place dynamic, Tyler-powered visualizations, third-party visualizations from SAS, Esri, Tableau, PowerBI, as well as customize the HTML, JavaScript, images, videos, and text narration within story pages. Organizations can use it to communicate the meaning of the data with internal and external audiences alike.
- **Makes Creating Context and Stories Easy for Administrators:** WVDOT users and platform administrators can create new stories using a WYSIWYG (what you see is what you get) editor and drag-and-drop capabilities. Authors can write and edit their stories in draft mode, auto-save their changes, and configure the look and feel of their stories through a variety of fonts and customizable styles. The platform administrator can control user roles and permissions at a granular level. Authors can also copy predefined reports in order to modify and tweak them to fit their own individual reporting needs. Users will be able to begin creating dynamic, data-rich, content and stories within minutes using these powerful, easy-to-use, in-platform capabilities.
- **Ties Data to Policy Outcomes:** Perspectives (or Story Pages), a native capability within the Tyler Enterprise Data Platform, will allow WVDOT personnel and data experts to connect the dots between policy, initiatives, and performance outcomes. It can be used to gain insights to get things back on track and based on what efforts might pay off more than others.
- **Internal and External Data Sharing:** The Tyler Enterprise Data Platform delivers two different domains as part of the configuration: *Tyler Open Data Platform* for public facing data access and *Internal Data Platform* for internal agency data access. WVDOT will follow a simple workflow approval process for data that they choose to share with the public.

Our reporting tools provide formats that support quick and easy report creation and internal collaboration enabled by narrative story telling around data.

Following is an example of an EDP Perspective Page (or Story Page) where Tyler has built multiple, dynamic visualizations using in-platform tools and tied that in with narrative to provide users with additional context and help with the understanding of the data. The visualizations in the Story Page are dynamic in that as the underlying data is updated on the platform is updated, the visualizations will update automatically. This will lower the administrative burden on WVDOT and ensure that the data being published to the Tyler Enterprise Data Platform is current and accurate.



The EDP brings the full power of data contextualization, enabling the user community to create their own interactive information products, such as visualizations, dynamic reports, and dashboards and share them with each other. This will free up executives, program managers, analysts and frontline employees, who today depend on technically proficient intermediaries for the most basic tasks involving data, to ask and answer their own questions in self-service mode. It will also enable a more engaging collaboration with other internal stakeholders within WVDOT, resulting in increased trust, and customer satisfaction.

Existing historical data can be loaded into the data warehouse. The EDP's data ingress process helps improve the quality of data loaded to the platform with intelligent error identification. Here, problematic data elements are identified while the dataset is processed onto the platform.

As part of the proposed Tyler solution, citation and crash data will be uploaded from the Enforcement Mobile Central server where it is processed to the EDP for reporting. With the EDP as the foundation, your team will be able to connect new data sources into a single access point for trusted data. A single source of truth for authoritative and up-to-date data paves the way for making all performance, operational, and financial data – for any given program – available in secure self-service mode to authorized employees. The secure, self-service data discovery and access proposition is managed by an all-new user and role management system, a fine-grained access control system that integrates with enterprise identity providers, configurable approval workflows, and full auditability for every data sharing transaction. The EDP platform is deployed exclusively in our FedRAMP-Moderate accredited environment, permitting WVDOT to securely share sensitive data across programs and departments.

Data can be ingressed into the EDP, at which point users can create visualizations, calculate the sum, average, median, max, min, group data by categories, and filter to understand near-and long-term trends. The EDP supports on open analytic ecosystem through our APIs and connectors. Data can be used by other analytical tools, such as R, SAS, Tableau, PowerBI, and Excel to promote analysis and broad uses.

The EDP Visualization Suite gives employees and public users alike the ability to create and share stunning, interactive chart and map visualizations within the EDP, or embed them within Office documents and across the web. The EDP offers 13 different visualization formats available out-of-the-box, which can be dynamically applied to datasets for maximum flexibility in displaying critical information. The visualization capabilities are also easily extended with built-in extensions for third-party systems like Plot.ly, Tableau, R, Office 365, and Google Spreadsheets for an even richer analysis experience and giving analysts the freedom to use other tools while still having integrations back into the Tyler EDP.

4.2.1.9 Provide a solution that implements logical edit checks across all relevant data fields to ensure data fidelity and data integrity.

Enforcement Mobile offers a number of logic features built into it that improve the quality and accuracy of the data collected in crash reports and citations. These include data validations, error checks, autofill based on key data elements, and automated workflow routing. Validation rules can be added/modified at any time via the Administrative portal on the Enforcement Mobile website.

When an officer is creating a citation or crash report and a required field is left blank or completed in a format inconsistent with the validation rules, the officer will receive an error message and be returned to the offending field. Once the error is resolved, the record can be saved.

Additionally, some of the fields visible on a screen are dynamic based on values entered in other fields. For example, when the commercial motor vehicle box is checked, additional required fields such as vehicle number, business entity, address, hazardous materials, etc. appear.

4.2.1.10 Provide an application program interface (API) to allow for integration between the crash and citation systems and a local law enforcement agency's computer-aided dispatch and/or records management system.

Enforcement Mobile interfaces with any third-party system or database and integrates at no extra fee with any Tyler solution. Enforcement Mobile currently interface with nearly all CAD/RMS systems on the market today. We can access Open Database Connectivity (ODBC)-compliant databases, XML-based Application Programming Interfaces (APIs), and file-based import/export methods for moving data to and from other applications, including legacy systems. For agencies who have Tyler's Enterprise Records or CAD, there will be no additional interface fees charged.

We will match any file format (XML, flat file, CSV, etc.) utilized by the system we are interfacing with. We also will match any transport method (FTP, file drop, API, web services, and/or direct database injection) that is required for the interface. We have implemented all of these file types and transport methods in the past for both pushing data to and receiving data from other systems. These exports can be scheduled as dictated by the agency.

4.2.1.11 Interface with all other State and local agency systems/partners per Attachment C.

See 4.2.1.10.

4.2.2 Mandatory Project Requirements

4.2.2.1 Provide a solution to support electronic vehicle crash reporting that fully complies with state and federal laws and regulations

Electronic Crash is designed for handheld devices and laptops and allows officers to complete accident reports electronically in the field and realize the benefits of improved accuracy, efficiency, and productivity. Fields, screens, layouts, security, workflow, etc., are all defined and controlled by the agency, just as with eCitation.

We also provide web-based forms for new report creation or report modification that can be used on laptops (including MDTs) that are connected to the internet. Our extremely comprehensive reporting engine allows our clients to run various statistical reports including Esri-compliant shape files for importing into an existing ArcView system.

Once the reports are collected, Enforcement Mobile provides the complete workflow process for approvals, denials, submissions to the state, report modifications and superseding reports, redaction and the reselling of reports online.

4.2.2.2 Provide a solution to support electronic citation issuance and reporting that fully complies with state laws and regulations.

All aspects of Enforcement Mobile are configured to meet the needs of the client. We can support multiple citation types as defined by the State, and each form can have its own custom workflow.

4.2.2.3 Implement Vendor solution in compliance with the State of West Virginia Enterprise Architecture standards.

Will comply; upon further advancement in the RFP process, potential selection, and/or when the State deems required, Tyler will provide information relative to how we meet and/or exceed this stated requirement.

4.2.2.4 Provide system integration services necessary to successfully implement the Vendor's proposed crash reporting and e-citation solutions.

Development Methodology

Tyler adheres to the Agile methods for development. Using the Agile processes, we release software once per month in lieu of larger less frequent deployments. While we believe this method reduces the overall risk to the customer when rolling out new software, it does require discipline with regards to testing. For every 4-week sprint, we allocate 1 week for testing. This testing period includes automated testing and specific test cases related either to the changes scheduled for release or historic issues we want to verify before release. All changes are tested and approved before being released to production.

Training for State Core Team Members

Tyler will work with WVDOT to train core team members on all aspects of the solution. We provide both Administrative and End User training and have dedicated two sessions specifically for the State Core Team. Please see the detailed description of the proposed training in section 5.3.6.2.9 on page 68.

Cloud Environment

The proposed solution will reside in the AWS cloud environment. Please see page 49 for additional details.

Requirements Traceability Matrix

As part of the project kickoff process, the Tyler project team will provide the RTM.

Fit Analysis

As part of the project kickoff process, the Tyler project team will perform a fit analysis as needed.

Functionality Gaps

Crash Reconstruction Report – Enforcement Mobile does not support this function but can interface with the solution of the State's choice downstream of crash report processing.

Analysis and Process Flows

Tyler will provide the analysis and process flows if awarded the contract.

Business Process Re-engineering

Will comply; upon further advancement in the RFP process, potential selection, and/or when the State deems required, Tyler will provide information relative to how we meet and/or exceed this stated requirement.

Organizational Change Management

Tyler has developed effective and efficient methods of managing operational changes at our client sites, and we will work with WVDOT to identify points of change that must be managed and offer our assistance to make the transition as smooth as possible. Moving from paper citations to an electronic citation/crash reporting system or from an existing system to a new system does involve operational changes that Tyler can help WVDOT and participating agencies develop and deploy.

Our implementation process emphasizes the importance of cultural change management. This is how we guide you through the changes that accompany the implementation of a new software system and help to ensure a smooth transition. Our implementation staff is experienced in analyzing policies, procedures, and organizational needs. The proof of our approach is in the outcome — a successful implementation.

Management Plans

As part of the project kickoff process, the Tyler project team will provide these plans.

Security Plan

Tyler will comply with this requirement.

System Blueprint

The Tyler project team will provide a detailed system design document to the State if awarded the contract.

Test Plans

Tyler is committed to delivering the highest quality solutions and services to our clients. Our team will conduct both comprehensive internal QA testing, as well as client-facing acceptance testing to identify and resolve any technical issues within our solution. Quality assurance testing is guided by a formal list of acceptance criteria, which will enable our collective teams to ensure that all functionality is aligned with the agreed-upon requirements.

Tyler will work with the State to clearly understand the current process and set up a subset of initial testers to fully vet the end-to-end solution to include the configuration, website and any respective interfaces/integrations. The initial testers receive train-the-trainer style training to set them up to train the remainder of the department as agreed upon by the project team. Upon confirmation of successful end to end testing the agency will fully train all remaining users leveraging the initial testing group who participated in the train-the-trainer course. The agency will work with the project team to fully cut over all users once training is complete.

Training Materials and Videos

Tyler will provide training materials and videos as needed.

Train-the-Trainer

See Section 5.3.2.6.9 beginning on page 68 for a detailed description of our Train-the-Trainer approach.

Data Migration

Tyler migrates historical crash and citation data from the legacy system into the Enterprise Data Platform. Migration runs in parallel with late-stage configuration to maintain schedule efficiency.

Activities include:

- Extraction and profiling of legacy data
- Data cleansing and transformation per approved mapping
- Staged migration loads with validation checkpoints
- Reconciliation between legacy and new system record counts and data integrity
- Resolution of data quality exceptions

Tyler will work with WVDOT during the planning phase of data-migration efforts to assess the data to be migrated, create a data dictionary to define where data should be migrated to in the EDP environment, and identify the appropriate steps to be taken to resolve data conflicts during the migration process. Additionally, the Tyler team will work with the client to specify testing and data-verification steps at multiple points in the project, including but not limited to:

- Upon initial migration of data into EDP TEST environment
- Upon migration from the EDP TEST environment to the EDP PRODUCTION environment

It is only following the approval of the data review by WVDOT, in accordance with the steps outlined in the plan defined by the WVDOT/Tyler project team, that any data will be migrated from the current system.

Tyler uses a variety of software tools for data migration. During the data migration planning meetings, we will assess the data structure and format and will utilize that information to ensure the necessary tools are employed for the migration effort.

Go-Live Criteria

The Production stage of the implementation includes the State's validation that the solution meets the success criteria identified during the planning stage in Phase 1. Tyler will also work with State team members to chart a roadmap that will outline long-term goals and milestones required to accomplish those goals.

The Acceptance Test Plan (ATP) will provide the State with the testing plan of the installed system, including the interfaces, which will allow the State (and agencies) to certify that the system performs according to the requirements. The testing plan will include strategies and test cases to assist with this verification. The State will have the ability to certify the ATP prior to both the certification from Tyler and the beginning of the acceptance test.

Production Support

Tyler is committed to delivering a successful and referenceable Crash Reporting and eCitation System to WVDOT. We stand by our products and services and will work with you to ensure that you are satisfied with the solution we are providing. As part of our implementation and maintenance care, Tyler will assign a Customer Support Account Manager (CSAM), who will be the direct point of contact for the State after implementation. Tyler will provide 90-day managed care period to stabilize operations and resolve post-go-live issues assuming a mutually agreeable definition of "critical defects."

4.2.2.5 Provide project management services throughout system implementation and operations and maintenance.

An overview of Tyler's project management services can be found in section 5.3.6.2.6 on page 55.

4.2.2.6 Plan and conduct structured testing during each project phase.

Tyler's test plan approach can be found on page 44.

4.2.2.7 Design, develop, test, deploy, and support required system integrations.

Tyler's solution was designed to integrate with other systems. Our Enforcement Mobile backend system can access ODBC-compliant databases, XML-based APIs, and file-based import/export methods for moving data to and from other applications. This flexibility provides an enormous number of possibilities for increasing the value of our client's investment by creating new functionality or adding new applications to the devices.

We can send any data on the server and will match any file format (XML, flat file, CSV, etc.) that would be utilized by the system we are interfacing with. We also will match any transport method (FTP, file drop, API, web services, and/or direct database injection) that is required for the interface. We have implemented all of these file types and transport methods in the past for both pushing data to other systems as well as receiving data from other system. Enforcement Mobile utilizes a number of different webservice types including RESTful and SOAP, in addition to other webservice types the client may use.

The Tyler EDP can ingest data from other systems as well. WVDOT can leverage their existing Extract-Transform-Load (ETL) tools and publish data and metadata to the platform via our publishing APIs.

4.2.2.8 Design, develop, test, deploy, and support management reports.

Tyler's proposed solution includes multiple levels of reporting. Please see page 32 for a detailed description.

4.2.2.9 Plan and execute data migration.

Please see page 44.

4.2.2.10 Implement Vendor solution in conformance with state and federal security regulations, policies, and requirements.

Will comply; upon further advancement in the RFP process, potential selection, and/or when the State deems required, Tyler will provide information relative to how we meet and/or exceed this stated requirement.

Our solutions are designed from the ground up to deliver enterprise-scale data reusability. Each of the services that make up the EDP platform (i.e., indexing, automation, metadata management, search, query, alerting, and user management) offer a robust, developer ready API. These APIs enable non-proprietary access to the data and allow infinite re-use of the State's data by your business users and developers (through common, third-party analytical tools like SAS, Esri, Excel, Tableau and PowerBI, as well as through our standards-based APIs and a growing library of SDKs).

Everything from search and discovery, to KPI management, to metadata management, to high-performance SQL-like data queries (and data fusion, or joins) are available via secure programmatic interfaces. With the recent rollout of OData V4 support, along with a growing library of open SDKs and analytics connectors, powering a production-class heterogeneous analytics environment like PowerBI, Tableau, R, and Python is built-in, giving analysts the freedom to use their analytics tool of choice, while leveraging the same source data.

4.2.2.12 Provide a solution designed for high availability and reliability.

See attached SLA for performance guarantees.

4.2.2.13 Provide a solution with a consistent and intuitive user interface that fully complies with relevant usability standards.

The mobile screens are laid out in tab form with minimal scrolling required. The screens use drop-down boxes, buttons, and intuitive designs to allow users to quickly and efficiently create citations. The citation can be saved in progress and continued elsewhere.

Tyler agrees to comply with the applicable disability laws, rules, and regulations as they relate to its employment practices and the services being proposed. Tyler reserves the right to discuss the applicability of digital accessibility laws, rules, and regulations, as well as non-binding industry guidance, to the software products being proposed.

4.2.2.14 Provide document management capability within the Vendor solution.

Enterprise Data Platform (EDP) provides integrated document management capabilities by enabling secure storage, indexing, and retrieval of documents associated with enforcement activities. Crash reports created and captured within Enforcement Mobile are stored in the Enforcement Mobile database and linked to their corresponding records in the Enterprise Data Platform through metadata and unique

identifiers. This approach ensures that all documents are consistently managed, easily searchable, and retrievable for authorized users.

4.2.2.15 Provide audit trail functionality.

The EDP creates a single enterprise-wide reporting structure for trusted, actionable, data by being able to integrate and merge multiple data sources and appropriately manage access to granular level data through highly customizable roles and permissions and full auditing capabilities into data sharing transactions. The platform connects communities to drive collaboration and results -- not just by geography, but by connecting communities of WVDOT staff, local law enforcement agencies, analysts, constituents, policymakers, and the public alike. Through these powerful in-platform capabilities the State of WV will be able to create a powerful data program that delivers the right data to the right personnel, at the right time.

4.2.2.16 Operate and maintain Vendor solution in production per service levels as negotiated and mutually agreed to in the Contract.

Tyler will operate and maintain the proposed solution according to mutually agreed upon service levels.

4.2.3 Desired Project Requirements

4.2.3.1 Complete implementation of the project within the agreed-upon timelines.

Tyler will work with the State to achieve complete implantation of the project within the agreed-upon timelines.

4.2.3.2 Deploy implementation of pilot phase and full statewide deployment to production status on an expedited timeline.

Tyler will work with the State to deploy the solution to a pilot group and then full statewide deployment according to the agreed-upon timelines.

4.2.3.3 Address identified defects during Operations and Maintenance per Agency defined service levels.

Tyler will address defects during both the implementation and maintenance periods.

4.2.3.4 Provide experienced staff throughout the contract that meets or exceeds the experience of the staff identified in the Vendor proposal.

Tyler will staff this project with a dedicated, cross-functional, highly experienced team that operates as a single delivery organization. While team members bring specialized expertise from Tyler's Enforcement Mobile and Data & Insights practices, they report to one Project Manager, follow one implementation plan, and share accountability for project success.

4.2.3.5 Fully disclose all subcontractors and their proposed role in the Vendor proposal and obtain WVDOT approval before subcontracting any other elements of the work under the Contract.

Tyler will not use subcontractors for this project.

4.2.3.6 Provide the ability to integrate the Vendor solution with local agency identity management systems to support single sign-on for local agency staff.

Integration with identity management systems at WV state agencies is included. Local agency identity management system single sign-on can be added for an additional cost.

4.3.1 Qualifications and Experience Information

4.3.1.1 The Vendor's proposed vehicle crash reporting solution should have been in production status for at least one United States jurisdiction with at least 50,000 crash reports per year captured in the Vendor's system as of the date of proposal submission.

Over 250 agencies use Enforcement Mobile for crash reporting today, with 11 states live and an additional 12 states in development. Our highest volume state for crash reporting is Nevada with over 56,000 crash reports written with Enforcement Mobile in 2025.

4.3.1.2 The Vendor's proposed e-Citation solution should have been implemented to a production status for at least one United States jurisdiction with a minimum of 150,000 electronic citations per year captured in the Vendor's solution as of the date of proposal submission.

The State of North Carolina issued nearly 1.5 million citations using Enforcement Mobile in 2025, and eight (8) individual agency customers across the US issued over 100,000 citations apiece.

4.3.1.3 The Vendor should have prior experience, preferably as the prime system integrator, with implementing the Vendor's proposed vehicle crash reporting and e-Citation solution to a production status for at least one United States jurisdiction as of the date of proposal submission.

Enforcement Mobile eCitation and Crash Reporting have been in use at law enforcement agencies across the US for over two decades. The Tyler EDP and proposed data solutions have been in use since 2012, and over 150 state and local clients leverage the data platform today, and over 1,000 clients use our off-the-shelf dashboard data solution. The complete proposed data solution is currently in use in the State of Nevada.

4.3.2 Mandatory Qualifications/Experience Requirements

4.3.2.1 The Vendor's proposed Project Manager must be currently certified as a Project Management Professional (PMP) by the Project Management Institute.

While specific team members are assigned once a contract is signed, this project will be overseen by **Justin Bruce**, Director of Client Services for Tyler Data and Insights. Justin holds his PMP certification and is responsible for the orchestration, strategic planning, and operational excellence for our Client Services department, ensuring it aligns seamlessly with our organizational goals and drives client satisfaction. This includes the development and implementation of client-facing work protocols, enhancing product adoption and elevating the overall customer experience.

Justin has oversight of the Tyler Global Services project managers and implementation personnel who are responsible for the timely and quality delivery of our solutions to Tyler clients. He has over 7 years of direct project experience within Tyler Data and Insights and has worked on dozens of successful projects.

The team underneath Justin includes project managers and program managers who also have years of experience successfully delivering Tyler's data solutions in the Enterprise Public Safety and Enterprise Justice space. Justin's resume can be found in the attachments section of this response.

4.3.2.2. The Vendor's proposed Functional Lead and Technical Architect must have at least two years of experience working in similar roles on implementations of the Vendor's proposed solution.

Tyler's functional lead and technical architect have many years of experience at Tyler with projects such as this.

5.3.6.2.4 Attachment A – Requirements Matrix

See the Attachments section beginning on page B-1 of this response.

5.3.6.2.5 Proposed Cloud Environment

Tyler Technologies proposes to host the West Virginia Crash Reporting and e-Citation System within Amazon Web Services (AWS), utilizing a highly available, secure, StateRAMP- and FedRAMP-authorized cloud infrastructure environment. The environment is architected to support mission-critical public safety operations with resilient multi-AZ deployment, enterprise-grade security controls, and continuous monitoring.

The production environment will operate within a US-based AWS Region. Workloads will be distributed across at least two Availability Zones to eliminate single points of failure and ensure automatic failover capabilities.

AWS awarded Tyler the AWS State or local Government Partner of the Year for 2024, and a letter of support from AWS can be found on the next page.

CC VND 00079648 2026 TR



Amazon Web Services, Inc. ■ 410 Terry Avenue North, Seattle, WA 98109-5210, U.S.A.

February 18, 2026

Tyler Technologies
5101 Tennyson Parkway
Plano, Texas 75024

Re: Letter of Support for Crash Reporting and e-Citation System Modernization

To Whom It May Concern:

Amazon Web Services, Inc. (AWS) is very pleased to support Tyler Technologies in its efforts to assist West Virginia Department of Transportation for Crash Reporting and e-Citation System Modernization using the AWS Cloud. This letter confirms that Tyler Technologies is an AWS Partner Network (APN) AWS Partner in good standing.

Tyler Technologies also holds the following AWS Competency: Government ISV Competency.

AWS offers commercially available, web-scale computing services that help organizations avoid much of the heavy-lifting typically associated with launching and growing successful applications. These services are based on Amazon's own back-end technology infrastructure and incorporate over a decade and a half of experience building one of the world's most reliable, scalable, and cost-efficient web infrastructures. The use of AWS will provide you with access to expertise in large-scale distributed computing and operations and will enable your applications to be robust and scalable.

AWS values and appreciates the opportunity to support Tyler Technologies, and we look forward to a long and productive relationship. If you have any questions, or require additional information, please contact Nicole Negri, ISV Sales Manager, at nicokmor@amazon.com or 214-543-2953.

Sincerely,

Amazon Web Services, Inc.

A handwritten signature in black ink, appearing to read "Shannon Lowther".

Shannon Lowther
Senior Manager, Worldwide Public Sector Contract Management

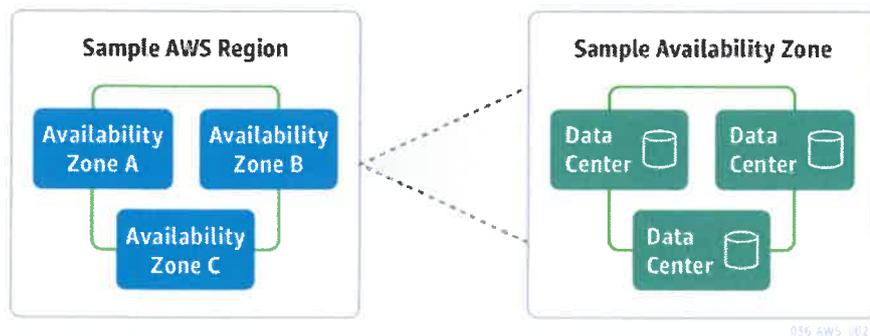
AWS offers a best-in-breed solution with high uptime and reliability, exceptional support, and top-notch security. This virtual network closely resembles a traditional network that operates locally in your own data center, with the benefits of using the scalable infrastructure of AWS.

Enforcement Mobile

The Enforcement Mobile central server is hosted on AWS GovCloud, which offers the following benefits:

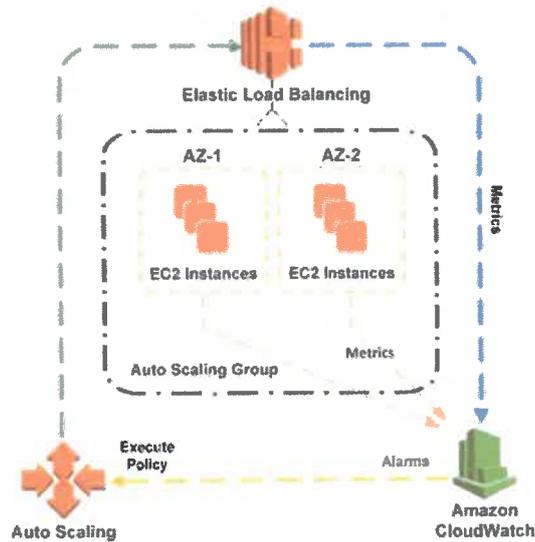
- **No network, hardware infrastructure, or server licensing for our clients to worry about** – Everything is covered by AWS. Plus, AWS provides continual innovation, so systems hosted in the cloud are always operating in a state-of-the-art IT infrastructure.
- **Robust and scalable** – As the system increases in size, the capacity of the database and AWS GovCloud VPC will expand with it, meaning we will never “outgrow” the hosted environment.
- **Redundant infrastructure** – To minimize disruptions, AWS employs compartmentalization, with multiple constructs that provide different levels of independent, redundant components. They operate in Regions, which are isolated from each other, meaning that a disruption in one Region does not result in disruption in other Regions. Availability Zones are physically separated and isolated, and they are built with highly redundant networking to withstand local disruptions. AWS also leverages a concept known as cell-based architecture, by which resources and requests are partitioned into “cells” that are designed to be independent of each other. This design minimizes the chance that a disruption in one cell—for example, one subset of customers—would disrupt other cells. Additionally, although the likelihood of large-scale incidents is very low, AWS is prepared to manage them should they occur. They maintain a series of incident response plans covering both common and uncommon events, and we update them regularly to incorporate lessons learned and prepare for emerging threats.

The following diagram illustrates the standard redundancies of the AWS GovCloud.



Source: Amazon Web Services

In addition to the durability of the infrastructure, AWS allows the Enforcement Mobile system to dynamically add or remove computing resources depending upon demand, allowing for unlimited scalability with auto scaling and Elastic Load Balancing. While AWS Auto Scaling adjusts capacity for multiple resources, Elastic Load Balancing distributes incoming application traffic across targets such as Amazon EC2 instances and containers. This is illustrated in the diagram below.



Source: Amazon Web Services

- **Secure** – The AWS virtual infrastructure is designed to provide optimum availability while ensuring customer security, privacy, and segregation. AWS’s highly secure data centers use state-of-the-art electronic surveillance and multi-factor access control systems and maintain strict, least-privileged-based access authorizations.
- **Encryption** – Multiple AWS Cloud services provide built-in integration with AWS Key Management Service to allow easy encryption of data. In combination with the encryption used in the Enforcement Mobile itself, your data are highly secure.
- **CJIS Compliant** – AWS complies with the FBI’s CJIS standard. AWS demonstrates compliance with applicable CJIS requirements as supported by third-party assessed frameworks such as FedRAMP, which includes on-site data center audits by our FedRAMP-accredited 3PAO.
- All **data transferred** between the devices in the field and the server are performed over a TLS 1.2 connection via webservice. This includes downloads, uploads, software distribution and error reporting. All communications are compressed and then encrypted via AES. Data at rest is encrypted with FIPS 140-2 and AES 256.
- **Data Privacy and Ownership on AWS** – Tyler manages access to all Enforcement Mobile content and user access to AWS Cloud services and resources. AWS does not access or use Enforcement Mobile content for any purpose without our consent. AWS personnel do not have the ability to log into customer instances. AWS never uses customer content or derive information from it for marketing or advertising.
- **Audit Trail** – AWS allows for continuous monitoring of all activity on our VPC, including actions taken through the AWS Management Console, AWS SDKs, command line tools, and other AWS services. This event history simplifies security analysis, resource change tracking, and troubleshooting.
- **Back-up and Disaster Recovery** – AWS provides a set of cloud-based DR services that enable fast recovery of your IT infrastructure and data. Data are backed up to Amazon Simple Storage Service (Amazon S3) with 99.999999999% data durability. Data are transferred over a network from any location. System snapshots of all file data occur once every 4 hours and snapshots of the database once per hour. Each snapshot is a full backup of everything needed to restore all data that is being backed up.

- **Uptime and Availability**

Refer to Tyler's SLA on page B-38 for uptime and availability.

Enterprise Data Warehouse

Tyler EDP is a cloud native, FedRAMP Moderate, enterprise scale data-as-a-service solution that resides in the AWS Cloud.

Key benefits include:

- **Technical and Functional Interoperability:** The Enterprise Data Platform creates a single enterprise-wide reporting structure for data by being able to integrate and merge multiple data sources and appropriately manage access to granular level data through highly customizable roles and permissions and full auditing capabilities into data sharing transactions. The platform connects communities to drive collaboration and results -- not just by geography, but by connecting communities of WVDOT staff, judicial branch stakeholders, analysts, constituents, policymakers, and the public alike.
- **API Re-use:** Our solutions are designed from the ground up, able to deliver enterprise-scale data reusability. Each of the services that make up the Enterprise Data Platform (i.e., indexing, automation, metadata management, search, query, alerting, and user management) offers a robust API. These APIs will enable infinite re-use of WVDOT's data by their business users and developers (through common, third-party analytical tools like Excel, Tableau and PowerBI), as well as through our standards-based APIs and a diverse set of SDKs.
- **Creation & Management of Ad-hoc Reports:** In addition to providing the data management and API capabilities listed above, the Enterprise Data Platform means the WVDOT can build ad hoc, data-driven reports within the platform (for either internal or public audiences as appropriate). Granular user controls of rights and permissions will give the WVDOT complete control over both who has access to creating such reports, as well as control over the potential audience of these reports. Reports, as well as the underlying data assets that populate / compose them, become indexed and searchable content within the Enterprise Data Platform. We describe these capabilities under #2 - Suite of Analytics Products for Visualization and Reporting.
- **Fast Time-to-Value:** The Enterprise Data Platform is a Data-as-a-Service (Daas) product, which means that Tyler Technologies maintains the infrastructure on Amazon Web Services in a FedRAMP-certified environment and will auto-scale resources to meet WVDOT needs. Users simply log in and access the platform's various capabilities.

Tyler recognizes that being good stewards of our customers' data means making sure that the information on our platform is there when needed, is only visible to those who should have access, and hasn't been changed. The EDP's FedRAMP-accredited status provides agencies with an enterprise-ready environment to securely collect, manage, analyze, and disseminate extensive amounts of data, internally and externally, to support the design and delivery of mission-critical programs.

Tyler has invested heavily in security and privacy programs to meet the strictest availability, confidentiality, and integrity requirements. With a dedicated team of security analysts continually monitoring for vulnerabilities and attacks, all clients benefit from these increased security measures. We have also brought in outside assessors to review our security controls, environment, and approach and have created and deployed a bug-bounty program to encourage security researchers to test our systems. In May 2017, Tyler's EDP first achieved FedRAMP-Moderate Authority to Operate (ATO). Our FedRAMP compliance information is available on the FedRAMP website.

Security Specific Requirements

WVDOT requires the reporting system to allow for registration of users and authorized access, security rules and groups, password protection, access privileges, and reporting capabilities based upon user role and associated permissions. We have described our solution's ability to meet each of these security requirements below.

Registration of Users & Online Authentication

To support WVDOT in allowing users such as legal aid providers, foundations, and other entities to access the platform, the Enterprise Data Platform can both register and manage users as well as support integration within existing Active Directory infrastructures for Single Sign On (SSO). The platform can also support the use of Auth0 third-party services to handle federated sign-in for customers who need single sign-on (SSO), which is a feature that translates a variety of client authentication tokens (SAML, WS-FED) into a standardized JWT token that we parse, validate, and map to users in our system. Rules may optionally be run as part of generating the standardized authentication token to map the user into a particular platform role, based upon custom attributes passed as part of the client's token.

Security Rules, Groups and Access Privileges to Manage Access to Data Sources

Administrators can assign numerous **user roles** for access to specific data sources and assets, and to delegate tasks on the platform and enabling other users to create and manage datasets. User roles define the types of actions they can perform for all datasets on the domain, as well as high-level operational control of the domain itself. Examples of these actions include importing data, adding features, and managing users. User roles include Viewer, Editor, Designer, Publisher, and Administrator.

Platform users also have **permissions per datasets**, which define the types of actions that a person can take on a specific dataset. Examples include editing a dataset, viewing a dataset, and publishing a dataset. Dataset-level level permissions can be used to designate Viewers, Contributors, and Owners.

Password Policies

The Enterprise Data Management platform's user management and site administration allows administrators to add, remove, and modify users on the site, including assigning user roles, resetting passwords, and reviewing when users were last active.

Password policies on the platform enforce a minimum password complexity of eight (8) characters (maximum of 40 characters), which must include at least three of the following four classes of characters: uppercase letters, lowercase letters, numbers, and symbols/special characters. Clients may implement stronger requirements through SAML configuration at their discretion.

Protections and Alerts of Unauthorized Access

Tyler takes the following steps to ensure that all WVDOT data is fully protected from unauthorized access:

- **Identity and Access Control:** The Enterprise Data Platform uses AWS Identity and Access Management (IAM) tools to enforce policies of least privilege. Individuals have separate IAM accounts, and multi-factor authentication is enabled for all IAM users. Permissions are assigned via roles and groups, and credentials are rotated at least once every 60 days.
- **Security Groups and Network ACLs:** The platform maintains strong logical isolation and visibility/control between functional tiers. Security groups provide stateful filtering at the

instance level. Network ACLs act like a firewall by controlling traffic in and out of a subnet and thus provide an additional layer of security.

- The platform's security groups are configured to "allow-all." Service-specific security groups can be used to "deny-by-exception."
- Network ACLs are used to restrict inter-VPC and inter-subnet traffic. For example, network ACLs isolate a VPC's DMZ. The network ACLs of internet-facing DMZs are configured to mitigate common DDoS attack patterns.
- **Data in transit:** All data in transit is encrypted, using SSL/TLS in browser sessions and/or FIPS 140-2 algorithms depending on the type of connection. The various methods for loading, interacting with, managing, and transferring client data on the Enterprise Data Platform are designed to give a consistent level of assurance of confidentiality while that data is in transit either between services, or to a user of the product itself.
- **Data at rest:** All data at rest is encrypted. This includes the following data stores: Databases, Amazon S3 buckets, and Amazon EBS volumes.

The data platform relies on AWS to manage both the encryption method and key management infrastructure (KMI). AWS uses the industry-standard AES-256 algorithm, and master encryption keys are stored in Amazon Key Management Service (KMS), which uses Hardware Security Modules (HSMs) to protect the security of keys. Decryption of key data on individual EC2 instances is allowed based on IAM policies, where access is granted based on IAM role. AWS's encryption systems and processes have strong access controls that minimize the chance of unauthorized access, and these systems are verified by third-party audits to achieve security certifications including SOC 1, 2, and 3, PCI-DSS, and FedRAMP.

Please note the following data at rest is not encrypted:

- AWS's tools do not allow you to automatically make a trusted key available to the boot volume at start-up, so each EC2 instance boots from an unencrypted file system that is built into the AMI.
- Instance, or "ephemeral," storage may be unencrypted, and all such volumes go into a pool to be scrubbed before the blocks may be reused. Our solutions rely on AWS to reset storage before it is reused.

Immediate Actions Upon Intrusion

Tyler's Enterprise Data Platform maintains an Information Security Contingency Plan that covers business continuity, as well as incident response procedures. This plan is based on NIST sp 800-34 standards, and is reviewed, updated, and tested annually. We replicate data between three different AWS Availability Zones, each of which can power the entire Data and Insights platform as well as replicate the database write-ahead logs in near-real-time and take full backups every three days. Those back-ups are retained for 30 days.

5.3.6.2.6 Proposed Project Approach

Describe the Vendor's proposed approach for executing the project. Provide a high-level timeline for completing the work, depicting key tasks/activities and milestones. As an attachment (not counted in page limit), provide an initial project work plan for the project.

Project Approach and Methodology

Tyler will utilize its proven project implementation approach for this engagement. Tyler uses an iterative approach that blends Agile practices with a traditional waterfall framework, offering the predictability of a defined scope delivered through incremental milestones. Standard project tasks such as requirements

gathering, configuration, data onboarding, and testing follow the waterfall structure, while feature configuration and dashboard development occur in focused sprints with regular WVDOT input throughout.

This methodology has been refined across hundreds of state and local government implementations, including statewide crash reporting and citation systems for Nevada and Wyoming, and complex multi-agency data platforms for the U.S. Department of Transportation, Illinois Administrative Office of the Courts, and Texas Office of Court Administration. For West Virginia, Tyler brings this experience together through a single, integrated project team spanning our Enforcement Mobile and Data & Insights practices.

Implementation Principles

Tyler's approach to the WVDOT Crash Reporting and eCitation System Modernization is guided by four principles:

Unified Delivery. WVDOT will work with one Tyler team, one project manager, and one implementation plan. While our solution draws on expertise from Tyler's Enforcement Mobile group (field data collection, mobile applications, agency workflows) and Data & Insights group (data pipelines, analytics, public portals), these resources operate as a single delivery organization with shared milestones, joint status reporting, and coordinated dependencies.

Defined Scope with Controlled Change. Requirements sessions are time-boxed to prevent scope creep, which is the leading cause of schedule delays in large government technology projects. Any requirements beyond the defined sessions follow a formal change control process with impact analysis before approval.

Iterative Validation. Rather than waiting until the end of the project to test, Tyler validates configuration, integrations, and data quality at each phase. WVDOT stakeholders review working functionality throughout, reducing risk and accelerating user acceptance.

Knowledge Transfer by Design. Training is not an afterthought. Tyler embeds knowledge transfer into every phase, ensuring WVDOT staff can administer, maintain, and extend the system independently after go-live.

Implementation Phases

Tyler will execute this project over 18 months across six phases. Each phase concludes with defined deliverables and formal acceptance before proceeding.

Phase 1: Project Initiation (Weeks 1–4)

Tyler conducts a formal kickoff with WVDOT leadership, partner agencies, and key stakeholders. This phase establishes project governance, communication protocols, and the foundational project management artifacts that guide execution.

Activities include:

- Kickoff meeting with WVDOT, DMV, State Police, and participating local agencies
- Confirmation of scope, success criteria, and acceptance procedures
- Establishment of project governance structure and escalation paths
- Development of communication plan and status reporting cadence
- Initial data source inventory and integration assessment

Deliverables: Project Management Plan, Communication Plan, Risk Register, Preliminary Integration Assessment

WVDOT Responsibilities: Designate project manager and technical lead, provide stakeholder contact list, confirm governance structure

Phase 2: Requirements Validation and Design (Weeks 5–12)

Tyler facilitates structured requirements sessions to confirm business processes, validation logic, workflow rules, and reporting needs. Sessions are organized by functional area and run concurrently where dependencies allow.

Activities include:

- Up to eight requirements sessions over six weeks covering: crash data collection, citation processing, validation rules (MMUCC-6, state-specific), workflow and approvals, integrations (DMV, LRS, courts, RMS), analytics and reporting, public portal and crash report sales
- Documentation of current-state processes and future-state design
- Mapping of agency-specific configurations within the statewide framework
- Confirmation of data migration scope and historical data requirements

Deliverables: Requirements Traceability Matrix, Solution Design Document, Integration Specification, Data Migration Plan

WVDOT Responsibilities: Provide subject matter experts for each functional area, confirm state reporting requirements, approve design documents

Phase 3: Configuration and Integration (Weeks 13–36)

Tyler configures the Enforcement Mobile and Enterprise Data Platform environments according to approved designs and develops integrations with WVDOT systems and external data sources.

Activities include:

- Configuration of Enforcement Mobile for eCitation and eCrash (forms, fields, validation rules, workflows)
- Configuration of web-based crash and citation entry screens
- Development of integrations: DMV driver/vehicle lookups, Location Referencing System, court interfaces, agency RMS connections, federal reporting (FARS, FMCSA SafetyNet)
- Configuration of Enterprise Data Platform: data pipelines, validation routines, role-based access
- Development of Engagement Builder public portal for crash report purchasing
- Configuration of analytics dashboards and standard reports

Deliverables: Configured DEV/TEST/TRAIN environments, Integration Test Results, Data Pipeline Documentation

WVDOT Responsibilities: Provide test credentials and access to state systems, participate in integration testing, review configured environments

Phase 4: Data Migration and Validation (Weeks 28–44)

Tyler migrates historical crash and citation data from the legacy system into the Enterprise Data Platform. Migration runs in parallel with late-stage configuration to maintain schedule efficiency.

- Activities include:
- Extraction and profiling of legacy data
- Data cleansing and transformation per approved mapping
- Staged migration loads with validation checkpoints
- Reconciliation between legacy and new system record counts and data integrity
- Resolution of data quality exceptions

Deliverables: Data Migration Completion Report, Reconciliation Summary, Exception Log with Resolutions

WVDOT Responsibilities: Provide legacy system access and documentation, approve data mapping, validate migrated records

Phase 5: Testing and User Acceptance (Weeks 40–56)

Tyler executes a structured testing program covering unit, system integration, performance, and user acceptance testing. WVDOT stakeholders validate that the solution meets requirements before production deployment.

Activities include:

- System integration testing across all components and interfaces
- Performance and load testing simulating statewide transaction volumes
- Security testing and vulnerability assessment
- User acceptance testing with WVDOT and agency representatives
- Defect tracking, resolution, and regression testing

Deliverables: Test Plan, Test Scripts, UAT Sign-Off, Defect Resolution Log

WVDOT Responsibilities: Provide UAT participants, execute test scripts, document defects, approve test completion

Phase 6: Training, Deployment, and Transition to Operations (Weeks 52–72)

Tyler delivers role-based training, executes production cutover, and provides a 90-day managed care period to stabilize operations and resolve post-go-live issues.

Activities include:

- Train-the-trainer sessions for WVDOT and agency trainers (up to 30 sessions across 7 State Police troop regions)
- Administrator and analyst training for WVDOT technical staff
- Production environment deployment and final data migration
- Go-live support with on-site and remote resources
- 90-day managed care period with performance monitoring, issue resolution, and optimization
- Transition to ongoing support and maintenance

Deliverables: Training Materials, Cutover Plan, Go-Live Checklist, Managed Care Report, Transition to Support Documentation

WVDOT Responsibilities: Coordinate training logistics, confirm go-live readiness, participate in managed care reviews, accept final deliverables

High-Level Timeline

Phase	Duration	Weeks
Phase 1: Project Initiation	4 weeks	1–4
Phase 2: Requirements Validation and Design	8 weeks	5–12
Phase 3: Configuration and Integration	24 weeks	13–36
Phase 4: Data Migration and Validation	17 weeks	28–44
Phase 5: Testing and User Acceptance	17 weeks	40–56
Phase 6: Training, Deployment, and Transition	21 weeks	52–72

Note: Phases overlap where dependencies allow to optimize the 18-month schedule. A detailed project work plan is included as an attachment to this proposal.

Statewide Rollout Strategy

Tyler recommends a standardized, statewide configuration for the Enforcement Mobile solution. This approach provides a consistent user experience across all participating agencies while allowing flexibility for agency-specific needs.

All agencies will use identical crash and citation forms configured to WVDOT specifications and MMUCC-6 standards. Agencies select from two workflow options based on their internal processes:

- **Automated Approval:** Records flow directly to the central repository and downstream systems without manual intervention. Suitable for agencies with high transaction volumes and established quality controls.
- **Manual Approval:** An agency-designated supervisor reviews and approves records before transmission. Suitable for agencies preferring an additional quality checkpoint.

Interfaces to individual agency RMS and court systems are developed as part of Phase 3. Tyler's pre-built connector library accelerates integration with common RMS platforms already in use across West Virginia.

5.3.6.2.7 Proposed Project Organization

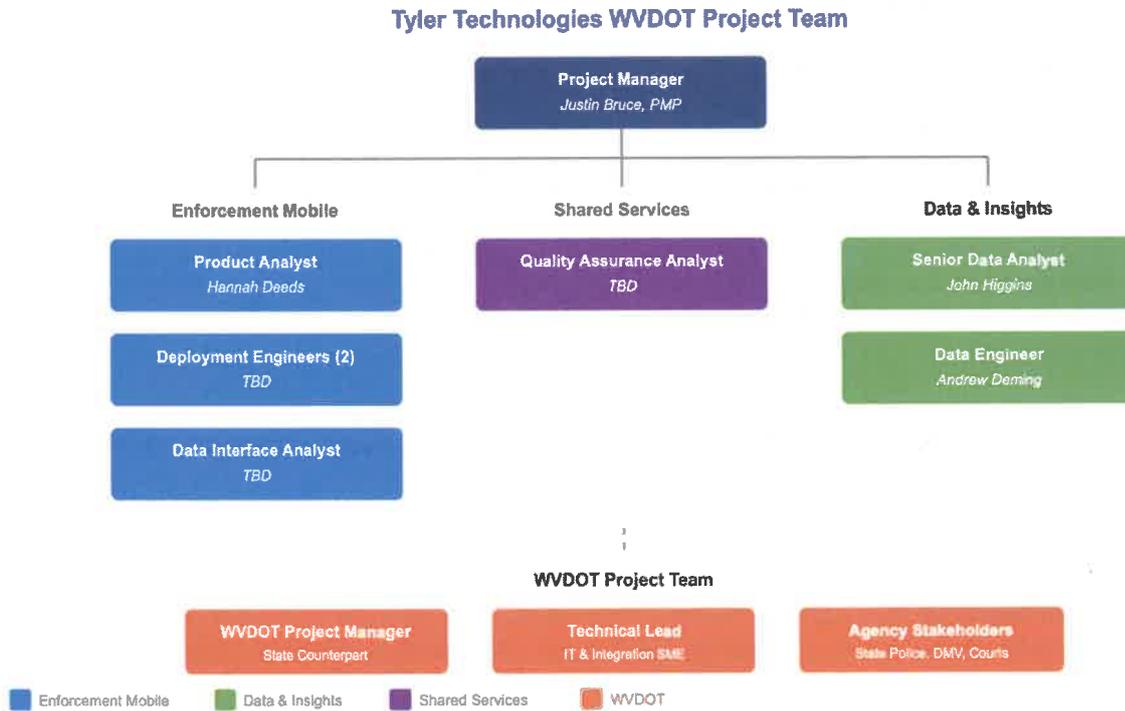
Describe the Vendor's proposed project organization for delivery of the requested services. Summarize the experience of the proposed project team. As an attachment (not counted in page limit), provide two-page resumes for each proposed team member that focus on highlighting the specific prior experience relevant to their proposed role on the WVDOT project.

Project Team Structure

Tyler will staff this project with a dedicated, cross-functional team that operates as a single delivery organization. While team members bring specialized expertise from Tyler's Enforcement Mobile and Data & Insights practices, they report to one Project Manager, follow one implementation plan, and share accountability for project success.

This unified structure ensures WVDOT works with one Tyler team rather than coordinating between separate divisions. Joint planning sessions, shared status reporting, and coordinated milestones eliminate handoff delays and communication gaps that can derail complex implementations.

The organization chart below illustrates the Tyler project team and its relationship to WVDOT stakeholders.



Tyler Project Team Roles and Responsibilities

Project Manager

The Project Manager serves as the single point of accountability for the entire engagement. Justin Bruce brings extensive experience delivering complex, multi-agency technology implementations for state government clients, including data platforms and public safety systems.

Responsibilities:

- Overall project leadership, schedule management, and budget oversight
- Primary point of contact for WVDOT project leadership
- Coordination across Enforcement Mobile and Data & Insights workstreams
- Risk identification, mitigation planning, and issue resolution
- Facilitation of steering committee meetings and executive reporting
- Change control management and scope governance
- Quality assurance oversight and acceptance milestone coordination

Product Analyst

The Product Analyst serves as the functional lead for the Enforcement Mobile solution, translating WVDOT requirements into system configuration specifications.

Responsibilities:

- Lead requirements sessions for crash reporting and citation workflows
- Document business rules, validation logic, and form specifications
- Define configuration parameters for MMUCC-6 compliance and state-specific requirements
- Coordinate with WVDOT subject matter experts on workflow design
- Validate configured solution against approved requirements
- Support user acceptance testing and defect resolution

Deployment Engineers

The Deployment Engineers configure the Enforcement Mobile solution according to specifications developed by the Product Analyst.

Responsibilities:

- Configure eCitation and eCrash forms, fields, and validation rules
- Implement workflow logic for automated and manual approval processes
- Configure web-based crash and citation entry screens
- Deploy Enforcement Mobile to DEV, TEST, TRAIN, and PROD environments
- Execute configuration changes based on UAT feedback
- Document configuration settings and environment specifications

Data Interface Analyst

The Data Interface Analyst develops integrations between Enforcement Mobile and external systems including courts, agency RMS platforms, DMV, and the Location Referencing System.

Responsibilities:

- Develop and test interfaces to WVDOT and partner agency systems
- Configure data exchange formats (XML, API, file-based) per system requirements
- Coordinate interface testing with third-party system owners
- Troubleshoot and resolve integration issues
- Document interface specifications and data mappings
- Support ongoing interface maintenance during managed care

Quality Assurance Analyst

The Quality Assurance Analyst validates solution quality across both Enforcement Mobile and Enterprise Data Platform components, serving as a shared resource ensuring end-to-end system integrity.

Responsibilities:

- Develop and execute test plans covering all solution components
- Perform functional, integration, regression, and performance testing
- Document defects and coordinate resolution with development resources
- Validate data migration accuracy and completeness
- Support WVDOT during user acceptance testing
- Confirm resolution of all critical and high-priority defects before go-live

Senior Data Analyst

The Senior Data Analyst leads the Enterprise Data Platform implementation, including data pipelines, analytics configuration, and reporting.

Responsibilities:

- Lead requirements sessions for analytics, dashboards, and reporting
- Design data models and transformation logic for crash and citation data
- Configure EDP validation rules aligned with MMUCC-6 and federal reporting standards
- Develop standard dashboards and reporting templates
- Coordinate data migration strategy and validation procedures
- Configure role-based access controls and data governance policies

Data Engineer

The Data Engineer implements the technical infrastructure for data pipelines, integrations, and the public portal.

Responsibilities:

- Develop and deploy data pipelines from Enforcement Mobile to EDP
- Implement ETL processes for data transformation and normalization
- Configure automated data feeds to federal systems (FARS, FMCSA SafetyNet)
- Develop Engagement Builder public portal for crash report purchasing
- Integrate portal with State Treasurer's Office payment systems
- Monitor pipeline performance and resolve data flow issues

WVDOT Project Team Responsibilities

Successful implementation requires active partnership between Tyler and WVDOT. The following roles and responsibilities ensure effective collaboration throughout the project.

WVDOT Project Manager

The WVDOT Project Manager serves as Tyler's primary state counterpart, coordinating internal resources and facilitating decisions.

Responsibilities:

- Serve as primary point of contact for day-to-day project coordination
- Coordinate WVDOT and partner agency resources for project activities
- Facilitate timely decisions on requirements, design, and acceptance
- Escalate issues requiring executive attention
- Review and approve project deliverables
- Coordinate logistics for training and deployment activities

WVDOT Technical Lead

The Technical Lead provides technical expertise and coordinates IT resources for integrations and infrastructure.

Responsibilities:

- Provide technical specifications for WVDOT systems and interfaces
- Coordinate access to state systems for development and testing
- Facilitate security reviews and compliance approvals
- Support integration testing with state technical staff
- Validate technical documentation and architecture decisions

Agency Stakeholders

Representatives from West Virginia State Police, DMV, courts, and participating local agencies provide subject matter expertise and validate solution functionality.

Responsibilities:

- Participate in requirements sessions and design reviews
- Provide current-state process documentation and business rules
- Execute user acceptance testing for agency-specific functionality
- Coordinate agency readiness for training and deployment
- Serve as agency champions for change management and adoption

Team Continuity and Substitution

Tyler commits to maintaining team continuity throughout the project. Named resources will remain assigned unless circumstances beyond Tyler's control require substitution. In the event a team member must be replaced, Tyler will:

- Notify WVDOT in writing within five business days
- Propose a replacement with equivalent or greater qualifications
- Obtain WVDOT approval before assignment
- Ensure knowledge transfer from the departing team member
- Bear all costs associated with the transition

Resumes for all named project team members are included as an attachment to this proposal.

5.3.6.2.8 Proposed Project Management Methodology

Methodology Overview

Tyler's project management methodology integrates PMI's five process groups (Initiating, Planning, Executing, Monitoring and Controlling, Closing) with practices refined across hundreds of state and local government implementations. The result is a structured, predictable approach that manages risk while maintaining flexibility for complex, multi-agency projects.

Our Project Manager is PMP-certified and serves as the single point of accountability for the entire engagement. The PM coordinates across Tyler's Enforcement Mobile and Data & Insights workstreams, ensuring WVDOT experiences one unified delivery team rather than managing separate vendor relationships.

Project Governance

Effective governance ensures decisions are made at the appropriate level, issues are escalated before they become problems, and all stakeholders maintain visibility into project status.

Governance Structure

Tyler establishes a three-tier governance model:

Tier	Composition	Cadence	Purpose
Executive Steering Committee	WVDOT executive sponsor, Tyler engagement executive, agency leadership	Monthly	Strategic oversight, escalated issues, major scope changes, go/no-go decisions

Project Leadership Team	Tyler PM, WVDOT PM, Technical Leads	Bi-weekly	Tactical coordination, risk/issue review, milestone tracking, decisions within scope
Working Teams	Tyler staff, WVDOT SMEs, agency representatives	As needed	Requirements sessions, design reviews, testing, training delivery

Decision Rights

Clear decision rights prevent delays and ensure accountability:

Decision Type	Authority
Requirements within approved scope	Project Leadership Team
Configuration and design decisions	Tyler PM with WVDOT concurrence
Scope changes under \$25,000 impact	Project Leadership Team
Scope changes over \$25,000 impact	Executive Steering Committee
Schedule changes under 2 weeks	Project Leadership Team
Schedule changes over 2 weeks	Executive Steering Committee
Go-live readiness	Executive Steering Committee

Communication Management

Consistent, transparent communication builds trust and ensures stakeholders remain informed throughout the 18-month implementation.

Communication Vehicles

Vehicle	Audience	Frequency	Owner
Status Report	Project Leadership, Steering Committee	Weekly	Tyler PM
Steering Committee Meeting	Executive sponsors, leadership	Monthly	Tyler PM
Project Leadership Meeting	Tyler PM, WVDOT PM, Tech Leads	Bi-weekly	Tyler PM
Working Session Notes	Session participants	Per session	Tyler Lead
Risk and Issue Log	Project Leadership	Updated weekly	Tyler PM
Project Dashboard	All stakeholders	Real-time access	Tyler PM

Status Reporting

Weekly status reports provide a consistent view of project health, including:

- Executive summary with overall status (Green/Yellow/Red)
- Accomplishments from the prior period
- Planned activities for the upcoming period
- Milestone status and forecast
- Risk and issue summaries with mitigation actions
- Decisions needed and pending items

Project Dashboard

Tyler maintains a shared project dashboard accessible to all authorized stakeholders, providing real-time visibility into phase status, deliverable tracking, open issues and risks, upcoming activities, and the document repository.

Risk Management

Proactive risk management identifies potential problems early and implements mitigation strategies before impacts occur.

Risk Management Process

Tyler follows a continuous risk management cycle:

1. **Identify:** Capture risks from team members, stakeholders, lessons learned, and external factors
2. **Assess:** Evaluate probability and impact using a standardized scoring matrix
3. **Plan:** Develop mitigation and contingency strategies for medium and high risks
4. **Monitor:** Track risk indicators and mitigation effectiveness weekly
5. **Respond:** Execute contingency plans when risk events occur

Risk Classification and Response

Rating	Score	Response
Critical	15-25	Immediate escalation, dedicated owner, daily monitoring
High	10-14	Mitigation plan required, weekly monitoring, steering committee visibility
Medium	5-9	Mitigation plan recommended, bi-weekly monitoring
Low	1-4	Accept or monitor, monthly review

Proactive Mitigations for Common Risks

Based on similar statewide implementations, Tyler proactively addresses these risk categories:

Risk	Mitigation Strategy
Scope creep	Time-boxed requirements sessions (8 sessions over 6 weeks), formal change control process, clear scope documentation with sign-off
Data quality variability	Early data profiling during Phase 2, four-layer validation (schema, business rules, MMUCC, state-specific), documented exception handling procedures
Integration complexity	Early integration assessment during initiation, pre-built connector library for common RMS platforms, dedicated Data Interface Analyst, phased integration testing
User adoption resistance	Role-based training curriculum, train-the-trainer model with regional sessions, 90-day managed care with on-site support
Resource availability	Early identification of required WVDOT participants, advance scheduling of key sessions, backup SME designation for critical roles
Legacy system dependencies	Parallel operation period before cutover, rollback procedures documented, data reconciliation checkpoints

Issue Management

Issues are problems that have occurred and require resolution. Tyler's issue management process ensures timely resolution with appropriate escalation.

Issue Lifecycle

1. Log: Capture issue with description, impact, and urgency
2. Assign: Designate owner responsible for resolution
3. Analyze: Determine root cause and resolution options
4. Resolve: Implement resolution and validate effectiveness
5. Close: Document resolution and lessons learned

Escalation Path

Severity	Definition	Resolution Target	Escalation Trigger
Critical	Blocks project progress	24 hours	Immediate to Steering Committee
High	Significant schedule/scope impact	3 business days	If unresolved after 2 days
Medium	Moderate impact, workaround exists	5 business days	If unresolved after 4 days
Low	Minor impact	10 business days	If unresolved after 8 days

Change Control

Change control protects project scope, schedule, and budget while providing a structured path for necessary adjustments.

Change Control Process

1. Request: Stakeholder submits change request documenting the proposed change, business justification, and desired outcome
2. Analyze: Tyler assesses impact to scope, schedule, budget, and risk
3. Review: Project Leadership Team reviews analysis and recommendation
4. Decide: Appropriate authority approves, rejects, or defers per decision rights matrix
5. Implement: Approved changes incorporated into project plan and communicated
6. Track: Change log maintains complete history of all requests and dispositions

Change Request Content

All change requests include description of proposed change, business justification, and requested timing. Tyler's impact analysis addresses scope, schedule, cost, risk, resource requirements, and a recommendation.

Quality Management

Tyler builds quality into each phase rather than relying on end-of-project inspection.

Quality Principles

- Validate incrementally throughout each phase
- Define acceptance criteria before work begins

- Engage stakeholders in quality reviews
- Address defects at the source

Quality Activities by Phase

Phase	Quality Activities
Initiation	Review and baseline project management artifacts
Requirements	Validate RTM completeness, obtain formal sign-off
Configuration	Peer review of configurations, automated validation testing
Migration	Data profiling, reconciliation checkpoints, exception review
Testing	Test plan review, defect triage, entry/exit criteria enforcement
Training	Training material review, pilot session feedback incorporation
Deployment	Go-live readiness checklist, post-deployment validation

Acceptance Process

Each phase concludes with formal acceptance:

1. Tyler delivers completed deliverables per the project plan
2. WV DOT reviews deliverables against defined acceptance criteria
3. WV DOT provides acceptance or documents deficiencies within agreed review period (typically 5 business days)
4. Tyler addresses deficiencies and resubmits if needed
5. WV DOT provides written acceptance
6. Project proceeds to next phase

Tools and Artifacts

Tyler utilizes industry-standard tools to support project management activities:

Function	Tool
Project Planning and Scheduling	Microsoft Project
Document Management	SharePoint / Microsoft Teams
Issue and Risk Tracking	Tyler Project Tracker
Status Dashboard	Power BI
Communication and Collaboration	Microsoft Teams
Requirements Traceability	SharePoint

Key Project Artifacts

Tyler delivers and maintains these project management artifacts throughout the engagement:

- Project Management Plan
- Communication Plan
- Risk Register
- Issue Log
- Change Log
- Weekly Status Reports
- Meeting Minutes

- Requirements Traceability Matrix
- Test Plan and Results
- Training Plan and Materials
- Cutover Plan
- Transition to Support Plan

5.3.6.2.9 Proposed Knowledge Transfer and Technical Training Plan

Training is an underestimated aspect of this project at most agencies and is a primary cause for failure. Tyler provides a comprehensive, role-based training program that spans the entire solution life cycle. Our approach combines instructor-led sessions, virtual workshops, and self-service resources to ensure all participants are confident and proficient with the Tyler Solution.

Implementation-Phase Training Audience: WVDOT project staff, technical leads, and agency trainers

- System Overview & Architecture: Orientation on the Enforcement Mobile (EM) application and Enterprise Data Platform (EDP) framework.
- Configuration Workshops: Hands-on sessions showing how crash-data intake, validation, and data-flow automation are managed.
- Integration & Data Flow Training: Instruction for data engineers and administrators on API use, ETL scheduling, and validation rule management.

Pre-Go-Live / End-User Training Audience: Law-enforcement data-entry staff, agency analysts, and WVDOT administrators

- Crash Data Entry and Submission: Step-by-step use of the EM Web Form and RMS/eCrash data interfaces.
- Validation and Error Resolution: How to interpret and resolve validation messages generated through AEP.
- Analytics and Reporting: Guided sessions on navigating the EDP environment, filtering crash datasets, and running standard and ad-hoc reports.
- Train-the-Trainer Program: Designated WVDOT staff receive detailed curriculum and materials to independently train new agency users.

Post-Go-Live / Operational Training Audience: System administrators, WVDOT analysts, and support staff

- System Administration: Role management, security configuration, and environment maintenance.
- Ongoing Data Governance: Best practices for data quality monitoring and statewide report consistency.
- Performance Optimization: Guidance on refining dashboards, managing ETL jobs, and applying updates.

Training Delivery Methods

- Virtual Instructor-Led Sessions: Conducted via secure Tyler platforms to reach all participating agencies.
- On-Site Workshops: Optional sessions at WVDOT's Technical Leadership Center in Salem for key administrative and trainer groups.
- Self-Paced eLearning Library: Video modules, user guides, and quick-reference documents accessible through Tyler Community.

- Knowledge Transfer: Documentation and recorded walkthroughs delivered at each phase transition to ensure sustainability.

By combining structured instruction, experiential learning, and reusable content, Tyler ensures that WV DOT and participating agencies gain lasting proficiency while reducing reliance on external support over time.

Enforcement Mobile Training

The goal for our training program is that the officers will be able to fill out the electronic citation long-hand (i.e., no DL swipe, VIN decode, or any other aid) and have it printed in less than four minutes. For crash reports, the pilot officers will be given full device and software training to understand and become familiar with the technology – both collecting data in the field to create a crash report and then uploading the crash report to the server where the officer can complete the report at a later time via the website.

The training process includes producing several test crash reports with a trainer to ensure comfort with the technology. Once the officers are familiar with the training, they can begin using the software for real crash reports in the field. This process serves two purposes: 1) we validate the entire process for real prior to engaging the entire department, and 2) we can have some positive feedback circulating the department prior to full rollout. Upon completion of this phase, there will likely be some informal training with other officers by the pilot officers, which is okay but should be kept to a minimum until the officers and court are comfortable enough to train the entire force.

The training class also teaches first level troubleshooting techniques for when things don't go perfectly, the officer can still be fully operational. It has been our experience that identifying and training a handful of key officers who we think will adapt to the technology quickly and can in turn teach the rest of the officers during the full deployment of the solution works best. Therefore, throughout our 1,800+ implementations, we have utilized a Train-the-Trainer approach to training users on our software.

Train-the-Trainer Series Details

- Enforcement Mobile training is a multiple day event, facilitated over 4 full 8-hour days. Day 1 will be focused on Admin training with Day 2, 3, 4 being centered around Officer training.
- A Tyler Implementation Consultant/Trainer will be onsite to host the training.
- Each Session has a maximum class size of 15 per day.
- Equipment/Software requirements – Users will need their laptops and printers with the Enforcement Mobile application installed and active on the website. Each user must be able to login successfully.

Day	Activity	Required Attendees
Day 1 Admin Training	<ul style="list-style-type: none"> ▪ Log into the backend site at portal.brazostech.com ▪ How to add users and assign roles/permissions ▪ How to create your 'common' offenses list ▪ How to manage e-Citations, Crash Reports, Driver Exchange, etc. ▪ Add/Remove users, configure value lists, offenses etc. ▪ Report training ▪ Troubleshooting 	All Personnel that will be supervising, approving, and reviewing citations.

Day 2 End User Training	<ul style="list-style-type: none"> ▪ How to create citations/warnings/tow ▪ Driver Exchange ▪ Write test citations using a variety of scenarios. ▪ Hardware Training ▪ How to navigate the operating system ▪ Troubleshooting ▪ Hardware functions ▪ Website Navigation ▪ How to create your 'common' offenses list ▪ How to find citations/warnings etc. ▪ Review and approval of citations ▪ Report 	All Personnel that will be issuing citations and instructing others later.
Day 3 End User Training	<ul style="list-style-type: none"> ▪ Full eCrash training ▪ Field data collection ▪ Review EM Analytics and Dashboards 	All Personnel that will be completing crash reports and instructing others later.
Day 4 End User Training	<ul style="list-style-type: none"> ▪ Hands-on workshop 	All Personnel that will be instructing others later.

For this project we have included 9 train-the-trainer sessions comprised of 2 sessions for State core team members plus an additional 7 sessions to be conducted at larger sheriff or police department offices. The intent is that the officers trained in these classes will then train the remaining officers at their respective agencies. Documentation and training materials will be provided.

Online Post Implementation Training. Tyler University is a web-based eLearning system for training users on the Tyler products they are licensed to use. With Tyler University for ongoing e-learning; Tyler Community, the on-line forum for the exchange of product knowledge and ideas; the Client Executives and Customer Support Account Managers that will be assigned to your account to ensure your ongoing satisfaction and utilization of products augmenting our traditional Customer Phone Support Center, we are confident that our Support Organization is unique and the very best in the industry. This approach will ensure a successful partnership for many years to come.

PACE. Tyler's Planned Annual Continuing Education program (PACE) offers options for on-site training for your staff on new features and functionality, refresher training for Configuration Team members and/or end users, and Business Process Review activities. If you contract with Tyler for this program, your Tyler Client Success Account Manager will work with you to schedule your annual PACE event.

5.3.6.2.10 Client References

Reference #1: State of Nevada

Statewide eCitation and eCrash

The State of Nevada embarked on a statewide crash reporting system in 2001 with another vendor. When the size of the project outpaced that vendor's capabilities, the State turned to Brazos (now Enforcement Mobile). In 2011, Brazos took over and began the design and implementation of a completely new system

for the State. This project was funded by Nevada DOT utilizing FHWA data improvement funds and the State of Nevada Office of Traffic Safety via NHTSA 405 funds.

Nevada provides the Enforcement Mobile eCitation and eCrash solution to the agencies at no cost. All Nevada law enforcement agencies with traffic responsibilities use this system. Over 3.8 million citations have been added to the system along with over 543,000 crash reports. The Nevada Crash Information Solution interfaces all crash and citation data to the individual agencies' RMS and sends citations to every court. Reports are sent electronically to CRSS, NHTSA, and FARS, and all data transferred to the Nevada Citation and Accident Tracking System (NCATS) for reporting.

Nevada eCrash on devices looks fundamentally like citation and functions the same, allowing the scanning of Driver's Licenses, Registration, and Witnesses. Nevada eCrash on the web was created as a WYSIWYG utilizing a dynamic PDF that looks exactly like the paper forms. The web-based user interface is designed to assist desk officers and people who are familiar with the paper forms and who may not use a handheld device. It has Scene, Vehicle, Non-Motorist and Witness pages and the user can tab through them to enter data, as illustrated in the following image.

The image shows a screenshot of a California Traffic Crash Report form (CHP 555) with various control panels on the left side. The form is titled "STATE OF CALIFORNIA DEPARTMENT OF CALIFORNIA HIGHWAY PATROL TRAFFIC CRASH REPORT CHP 555 Page 1 (Rev. 3-20) OPI 060". The form is divided into several sections: "LOCATION", "PARTY", and "VEHICLE". The "LOCATION" section includes fields for "CRASH OCCURRED ON", "MILEPOST INFORMATION", "FEETABLES", "CITY", "COUNTY", "REPORTING DISTRICT", "BLK", "DAY OF WEEK", "TIME QUAD", "OFFICER ID", "GPS COORDINATES", "LATITUDE", "LONGITUDE", "STATE HWY REL", "PHOTOGRAPHER", and "NONE". The "PARTY" section includes fields for "DRIVER'S LICENSE NUMBER", "STATE", "CLASS", "AIR BAG", "SAFETY EQUIP.", "VEH. YEAR", "MAKE/MODEL/COLOR", "LICENSE NUMBER", "STATE", "DRIVER NAME (FIRST, MIDDLE, LAST)", "On Duty Emergency Veh", "OWNER'S NAME", "SAME AS DRIVER", "STREET ADDRESS", "CITY/STATE/ZIP", "DISPOSITION OF VEHICLE ON ORDERS OF", "OFFICER", "DRIVER", "OTHER", "PRIOR MECHANICAL DEFECTS", "NONE APPARENT", "REFER TO NARRATIVE", "VEHICLE IDENTIFICATION NUMBER", "VEHICLE TYPE", "DESCRIBE VEHICLE DAMAGE", "SHADE IN DAMAGED AREA", "LINK", "NONE", "MINOR", "MOD.", "MAJOR", "ROLL-OVER", "DIR OF TRAVEL", "ON STREET OR HIGHWAY", "LANE", "THRU LANES", "TOTAL LANES", "SPEED LIMIT", "CA", "DOT", "CAL/T", "TOP/REG", "MCSA", "INSURANCE CARRIER", "POLICY NUMBER", "PREPARED BY", "DISPATCH NOTIFIED", "YES", "NO", "N/A", "REVIEWER'S NAME", "DATE REVIEWED". The left side of the form has several control panels: "Workflow Controls" (Validate, Submit, Hold, Void, Create Supplement), "Existing Pages" (Page 1 - 1, Page 2 - 1), "Diagram Controls" (Edit Diagram, Load/View Images), "Page Controls" (Save and Remain, Save and Close, Close, Next Page, Add 1st Page, Add 3rd Page, Add Narrative Page, Add Factual Diagram, Add CMV Page).

For additional information on the Nevada project, please go to:

<https://www.tylertech.com/resources/case-studies/nevada-modernizes-traffic-records-system>

<https://www.tylertech.com/resources/blog-articles/nevada-transforms-traffic-data-landscape>

Tyler Enterprise Data Platform and Enforcement Mobile Analytics

In 2024, the State of Nevada DPS and OTS (and other statewide agencies) partnered with Tyler to standardize, aggregate, and report on citation, crash, and stop data.

Standardization and Centralization of Data: The Tyler EDP leverages secure, flexible, and fully managed data pipelines to collect and standardize information from all agencies using Tyler Enforcement Mobile. By centralizing this data in a secure environment, the Platform ensures that critical enforcement data is

readily available to approved State of Nevada justice personnel for a wide range of reporting and operational needs.

Enhanced Data-Driven Reporting: A key value of the Tyler EDP is its ability to streamline and accelerate the State of Nevada's reporting obligations. The Platform reduces the time and effort required to share crash data with federal partners such as USDOT and NHTSA, as well as with internal State stakeholders. Because these Federal Agencies also utilize Tyler's Enterprise Data Platform, data can be seamlessly and securely shared through existing federation capabilities.

User-Friendly Dashboards: In addition to secure pipelines, the Tyler EDP delivers pre-configured, commercial off-the-shelf dashboards for use by approved State of Nevada agencies. These dashboards provide immediate access to critical e-citation, crash, and stop data, democratizing access across agencies. By equipping personnel with intuitive tools and standardized insights, the Tyler EDP empowers agencies statewide to operate more efficiently and manage their responsibilities in a data-driven manner.

Reference #2: State of Wyoming

Wyoming Highway Patrol began using Enforcement Mobile for eCitation in 2019. The tool was deployed to the entire fleet on Getac tablets, and they are now moving to both iOS and Android devices as well. Additional custom development has been added in recent years. Interfaces include Tyler RMS and WYCITE CMS. Wyoming State Parks and Fish & Game also use Enforcement Mobile.

In 2023, Wyoming DOT awarded Tyler the contract for statewide deployment of Enforcement Mobile Crash and Analytics. The project is currently in the implementation stage.

Reference #3: US Department of Transportation

Tyler Enterprise Data Platform

Tyler has supported the US Department of Transportation (USDOT) in its open data efforts and most recently in creating an authoritative DataHub for internal agency access using the EDP. Current efforts with USDOT include ongoing engagement with their OpDivs and staff on DataHub's capabilities, and on building evangelism within the agency to ensure there is more relevant data, better-equipped power users, and greater expansion within the agency.

- **Centralization of key data sources:** This included the migration of more than 4,000 public datasets from data.transportation.gov to USDOT's enterprise DataHub (datahub.transportation.gov), as well as data federation to manage data sharing and enhance discoverability of data across web properties.
- **Improved data driven reporting, both internally and externally:** USDOT leverages the Tyler Enterprise Data Platform (incl. Tyler Open Data Platform) to share data internally as well as collect data from all 50 states (and other agencies) in effort to better analyze and leverage data for all aspects of traffic safety.
- **Support USDOT with key organizational initiatives relating to Systems Integration, DevOps, and Continuous Delivery:** Tyler worked with the DOT CDO and OpDivs to deliver the DataHub system, which created a comprehensive data inventory and a single point of entry for agency personnel to access data, reducing the administrative burden of providing access to other data systems.

Required Forms

- Addenda Acknowledgement Form
- Signed CRFP Form
- Designated Contact/Certification Form
- RFP Review Certification

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.: CRFP DOT2600000002

Instructions: Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge the addenda may result in bid disqualification.

Acknowledgment: I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

Addendum Numbers Received:

(Check the box next to each addendum received)

- | | |
|--|--|
| <input checked="" type="checkbox"/> Addendum No. 1 | <input type="checkbox"/> Addendum No. 6 |
| <input checked="" type="checkbox"/> Addendum No. 2 | <input type="checkbox"/> Addendum No. 7 |
| <input checked="" type="checkbox"/> Addendum No. 3 | <input type="checkbox"/> Addendum No. 8 |
| <input type="checkbox"/> Addendum No. 4 | <input type="checkbox"/> Addendum No. 9 |
| <input type="checkbox"/> Addendum No. 5 | <input type="checkbox"/> Addendum No. 10 |

I understand that failure to confirm the receipt of the addenda may be cause for rejection of this bid. I further understand that that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.

Tyler Technologies

Company



Authorized Signature

3-9-26

Date

NOTE: This addendum acknowledgment should be submitted with the bid to expedite document processing.

	Department of Administration Purchasing Division 2019 Washington Street East Post Office Box 50130 Charleston, WV 25305-0130	State of West Virginia Centralized Request for Proposals Info Technology
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Proc Folder: 1883460 Doc Description: Crash Reporting and e-Citation System Modernization Proc Type: Central Master Agreement	Reason for Modification: ADDENDUM NO_3 Attach New Data Security Addendum Bid Opening Moves to 03/16/2026								
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Date Issued</th> <th style="width: 25%;">Solicitation Closes</th> <th style="width: 30%;">Solicitation No</th> <th style="width: 30%;">Version</th> </tr> </thead> <tbody> <tr> <td>2026-03-09</td> <td>2026-03-16 13:30</td> <td>CRFP 0803 DOT2600000002</td> <td>4</td> </tr> </tbody> </table>	Date Issued	Solicitation Closes	Solicitation No	Version	2026-03-09	2026-03-16 13:30	CRFP 0803 DOT2600000002	4	
Date Issued	Solicitation Closes	Solicitation No	Version						
2026-03-09	2026-03-16 13:30	CRFP 0803 DOT2600000002	4						

BID RECEIVING LOCATION
BID CLERK DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION 2019 WASHINGTON ST E CHARLESTON WV 25305 US

VENDOR
Vendor Customer Code: Vendor Name : West Virginia Interactive, LLC dba Tyler Technologies West Virginia Address : 1514 Street : Kanawha Blvd E City : Charleston State : WV Country : USA Zip : 25311 Prncipal Contact : Ian McQuinn Vendor Contact Phone: (304) 206-9720 Extension:

FOR INFORMATION CONTACT THE BUYER John W Estep 304-558-2566 john.w.estep@wv.gov

Vendor Signature X  **	FEIN# 26-0574888	DATE 3/13/26
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All offers subject to all terms and conditions contained in this solicitation
 ** Tyler's Proposal is submitted in conformance with the terms and conditions contained in this solicitation, except as modified by, taken exception to, or as otherwise provided in Tyler's Proposal.



DESIGNATED CONTACT: Vendor appoints the individual identified in this Section as the Contract Administrator and the initial point of contact for matters relating to this Contract.

(Printed Name and Title) Ian McQuinn, General Manager
(Address) 1614 Kanawha Blvd E, Charleston, WV 25311
(Phone Number) / (Fax Number) (304) 206-9720
(email address) ian.mcquinn@tylertech.com

CERTIFICATION AND SIGNATURE: By signing below, or submitting documentation through wvOASIS, I certify that: I have reviewed this Solicitation/Contract in its entirety; that I understand the requirements, terms and conditions, and other information contained herein; that this bid, offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the Solicitation/Contract for that product or service, unless otherwise stated herein; that the Vendor accepts the terms and conditions contained in the Solicitation, unless otherwise stated herein; that I am submitting this bid, offer or proposal for review and consideration; that this bid or offer was made without prior understanding, agreement, or connection with any entity submitting a bid or offer for the same material, supplies, equipment or services; that this bid or offer is in all respects fair and without collusion or fraud; that this Contract is accepted or entered into without any prior understanding, agreement, or connection to any other entity that could be considered a violation of law; that I am authorized by the Vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on Vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

By signing below, I further certify that I understand this Contract is subject to the provisions of West Virginia Code § 5A-3-62, which automatically voids certain contract clauses that violate State law; and that pursuant to W. Va. Code 5A-3-63, the entity entering into this contract is prohibited from engaging in a boycott against Israel.

West Virginia Interactive, LLC dba Tyler Technologies West Virginia

(Company) Ian McQuinn **
(Signature of Authorized Representative)
Ian McQuinn, General Manager 3/13/26
(Printed Name and Title of Authorized Representative) (Date)
(304) 206-9720
(Phone Number) (Fax Number)
ian.mcquinn@tylertech.com
(Email Address)

** Tyler's Proposal is submitted in conformance with the terms and conditions contained in this solicitation, except as modified by, taken exception to, or as otherwise provided in Tyler's Proposal.

Revised 10/17/2024

Request for Proposal

REQUEST FOR PROPOSAL

West Virginia Department of Transportation CRFP DOT2600000002

of clarification to assure full understanding of, and responsiveness to, the solicitation requirements. Vendors will be accorded fair and equal treatment with respect to any opportunity for discussion and revision of proposals, and revisions may be permitted after submissions and prior to award for the purpose of obtaining best and final offers. In conducting discussions, there will be no disclosure of any information derived from proposals submitted by competing bidders.

The Vendor's BAFO response, if requested, will include submission of revised technical and cost proposals. If BAFOs are requested by the State and submitted by the Vendor, they will be evaluated and scored, using the evaluation criteria in Section 6.2. Please note that the Agency reserves the right to award a contract based on the initial proposals received. Therefore, the Vendor should ensure their initial proposal provides the State the best terms from a price and technical standpoint.

- 6.9. Availability of Information:** Proposal submissions become public and are available for review immediately after opening pursuant to West Virginia Code §5A-3-11(h). All other information associated with the RFP, including but not limited to, technical scores and reasons for disqualification, will not be available until after the contract has been awarded pursuant to West Virginia Code of State Rules §148-1-6.3.d.

By signing below, I certify that I have reviewed this Request for Proposal in its entirety; understand the requirements, terms and conditions, and other information contained herein; that I am submitting this proposal for review and consideration; that I am authorized by the bidder to execute this bid or any documents related thereto on bidder's behalf; that I am authorized to bind the bidder in a contractual relationship; and that, to the best of my knowledge, the bidder has properly registered with any State agency that may require registration.

 **

(Company)

West Virginia Interactive, LLC dba Tyler Technologies West Virginia

(Representative Name, Title)

Ian McQuinn, General Manager

(Contact Phone/Fax Number)

304-206-9720

(Date)

3/13/2026

**** Tyler's Proposal is submitted in conformance with the terms and conditions contained in this solicitation, except as modified by, taken exception to, or as otherwise provided in Tyler's Proposal.**

Revised 03/01/2021

Tyler Attachments

Attachment 1: Requirements Matrix (RFP Attachment A)

WV DOT Crash Citation System Requirements

Req. #	Category	Sub-Category/ Field Name	Business (Functional) Requirement	MMUCC 5/6 Required?	MMUCC Reference Information	Priority (H, M, L, N/A)	Vendor Response	Customization Estimate (if Applicable)	Capability Planned for Future Release	Core Modules?	Third Party Solutions?	Comments/Notes
Crash1	CRASH LOCN	Crash Record Number	Provide support for the creation of a unique crash report identifier (also referred to as the State Case Number) maintained in the statewide crash data repository. This should be the key element to identify a crash record in the State's crash database, should maintain consistency with the existing Crash Record Number (a 10-character data field). Note: • The unique crash report identifier (also referred to as the State Case Number) maintained in the statewide crash data repository. • This should be the key element to identify a crash record in the State's crash database.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash2	CRASH LOCN	Secondary Crash	Provide support for the entry and maintenance of an identifier for entry and maintenance of a Secondary Crash Indicator.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash3	CRASH LOCN	DOHCounty	Provide support for the entry and maintenance of a county identifier in which the crash occurred.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash4	CRASH LOCN	Crash Location	The system shall provide support for the entry and maintenance of crash location information using a geo-locating tool. This geo-locating tool must be integrated with the State's Linear Referencing System (LRS). The officer must have the ability to override the LRS provided geo-location information as needed. Overview of the required functionality: Provide system support or assistance to law enforcement officers entering crash reports via a geo-locating tool. Generally, law enforcement should be able to open a Location Selector within the crash reporting system, centered on their current location and supported by the current WV LRS dataset (a static snapshot). The system should snap the clicked point to the nearest valid LRS route within the configured tolerance. A temporary marker would appear, allowing the officer to visually confirm the selection. A sidebar or pop-up panel would show derived attributes (route, sub-route, county, latitude, longitude, milepost, direction, etc.), and the officer could review and revise any inaccurate data points. As the officer drags the pin on the map, the LRS attributes would update to reflect their appropriate values. If the officer manually updates the route or milepost, the map would highlight the corresponding segment but would not move the marker unless explicitly requested. If system connectivity is down or the LRS service is unavailable, the tool should rely solely on a locally stored static snapshot of the LRS to calculate attributes.			H	Meets the requirement out-of-the-box			Enforcement Mobile Crash Reporting		
Crash5	CRASH LOCN	Crash Location (Lat and Long)	Provide support for the entry and maintenance of the Longitude and Latitude coordinates for the crash location. This functionality should conform to the functionality description provided above in the geo-locating tool and be one of the values retrieved from the WV LRS, but also could be overridden by the officer. Note: • The Lat and Long must be validated (minimally to confirm that the coordinates are within the WV state borders and conform to WV DOT LRS, except in cases where the crash originates on an offroad location (private property crash))			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash6	CRASH LOCN	DOHHighway Class	Provide support for the entry and maintenance of the type of facility on which the crash occurred (e.g., Interstate, US, WV, County/HARP, City Street, State Park/Forest Road, Private Road, Private Property/Off Road, or Other). This functionality should conform to the functionality description provided above in the geo-locating tool and be one of the values retrieved from the WV LRS, but also could be overridden by the officer.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash7	CRASH LOCN	DOHRoute	Provide support for the entry and maintenance of the route number on which the crash occurred. This functionality should conform to the functionality description provided above in the geo-locating tool and be one of the values retrieved from the WV LRS, but also could be overridden by the officer.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash8	CRASH LOCN	DOHSubroute	Provide support for the entry and maintenance of the subroute number on which the crash occurred. This functionality should conform to the functionality description provided above in the geo-locating tool and be one of the values retrieved from the WV LRS, but also could be overridden by the officer.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash9	CRASH LOCN	DOHSupplementalDesignation	Provide support for the entry and maintenance of a special designation of the route on which the crash occurred (e.g., Not Applicable, Alternate, Spur, Ramp, North, South, East, West, Truck Route, Toll, or Other). This functionality should conform to the functionality description provided above in the geo-locating tool and be one of the values retrieved from the WV LRS, but also could be overridden by the officer.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash10	CRASH LOCN	DOHMilepost	Provide support for the entry and maintenance of the milepost at which a crash occurred. This functionality should conform to the functionality description provided above in the geo-locating tool and be one of the values retrieved from the WV LRS, but also could be overridden by the officer.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash11	CRASH LOCN	DOHRamp	Provide support for the entry and maintenance of a field that identifies the entrance or exit ramp on which the crash occurred. This functionality should conform to the functionality description provided above in the geo-locating tool and be one of the values retrieved from the WV LRS, but also could be overridden by the officer.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		

WVDOT Crash Citation System Requirements

Req. #	Category	Sub-Category/ Field Name	Business Functional Requirement	MMJUC 5/6 Required?	MMJUC Reference Information	Priority of Health Impact	Vendor Response	Customization Estimate if Applicable	Capability Planned for Future Release	Core Modules	Third Party Solutions	Comments/Notes
Crash12	CRASH LOCN	DOHStreet/RoadName	Provide support for the entry and maintenance of the Municipal Street name on which a city street crash occurred. This functionality should conform to the functionality description provided above in the geo-locating tool and be one of the values retrieved from the WV LRS, but also could be overridden by the officer.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash13	CRASH LOCN	DOHIntersectingStreet	Provide support for the entry and maintenance of the nearest intersecting street to municipal street on which a city street crash occurred. This functionality should conform to the functionality description provided above in the geo-locating tool and be one of the values retrieved from the WV LRS, but also could be overridden by the officer.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash14	CRASH LOCN	DOHOther Description of Location	Provide support for the entry and maintenance of an additional description of the crash location. This functionality should conform to the functionality description provided above in the geo-locating tool and be one of the values retrieved from the WV LRS, but also could be overridden by the officer.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash15	CRASH LOCN	DOHRelation to Junction	Provide support for the entry and maintenance of the location of the first harmful event of a crash in relation to a specific type of junction. This functionality should conform to the functionality description provided above in the geo-locating tool and be one of the values retrieved from the WV LRS, but also could be overridden by the officer.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash16	CRASH LOCN	DOHNon-Interchange Junction Type	Provide support for the entry and maintenance of an indicator that specifies whether the crash is the first harmful event and occurs in a Non-Interchange Area. This functionality should conform to the functionality description provided above in the geo-locating tool and be one of the values retrieved from the WV LRS, but also could be overridden by the officer.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash17	CRASH LOCN	DOHInterchange JCT Type	Provide support for the entry and maintenance of an indicator that specifies whether the first harmful event occurs in an Interchange Area. This functionality should conform to the functionality description provided above in the geo-locating tool and be one of the values retrieved from the WV LRS, but also could be overridden by the officer.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash18	CRASH GENERAL INFO	Quality Control Review Date	Provide support for capturing the date and time of the Crash Data Quality Review Date for the crash record (this is by/for the Crash Record Number).			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash19	CRASH GENERAL INFO	Crash Amended (Date and Time)	Provide support for capturing the dates and times of the Crash Data record (this is by/for the Crash Record Number).			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash20	CRASH GENERAL INFO	Date and Time Crash Last Amended	Provide support for easily identifying the date and time of the last change or update made to the crash record (by Crash Record Number).			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash21	CRASH GENERAL INFO	Investigation Completed	Provide support for an Y/N Indicator specifying whether the investigation has been completed for the crash record (this is by/for the Crash Record Number). However, allow an authorized user the capability of re-opening and make additional final revisions.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash22	CRASH GENERAL INFO	Investigation Completion Date	Provide support for capturing the investigation complete date and time (this is by/for the Crash Record Number).			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash23	CRASH GENERAL INFO	Reporting Agency Record Number	Provide support for the entry and maintenance of an agency-specific indicator that identifies a crash report. If the crash report is being entered by a law enforcement officer, this field should be auto-filled based on the law enforcement officer's credentials, but should also be allowed to be changed. Note • Default for auto-filled number should be 'Off,' and only able to be turned off/on by the administrator for the agency.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash24	CRASH GENERAL INFO	Number of Vehicles Involved	Provide support for the entry and maintenance of an indicator that specifies the total number of vehicles involved in the crash. The number of vehicles involved will range from 1-n and each of these Vehicle Numbers (i.e., 1-n) should be present in the crash record in order for the crash record to be considered complete.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash25	CRASH GENERAL INFO	Number of Non-Motorists Involved	Provide support for the entry and maintenance of an indicator that specifies the total number of Non-Motorists involved in the crash.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash26	CRASH GENERAL INFO	Number of Fatal Injuries	Provide support for the entry and maintenance of a field that records the total number of fatal injuries occurring as a result of the crash.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash27	CRASH GENERAL INFO	Number of ABC Injuries	Provide support for the entry and maintenance of a field that records the total number of nonfatal injuries occurring as a result of the crash.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash28	CRASH GENERAL INFO	Date of Crash	Provide support for the entry and maintenance of the date on which the crash occurred.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash29	CRASH GENERAL INFO	Time of Crash	Provide support for the entry and maintenance of the time at which the crash occurred.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash30	CRASH GENERAL INFO	Date of Roadway Clearance	Provide support for the entry and maintenance of the date of first recordable awareness when all traffic lanes became available for normal traffic flow. This field should be enterable and maintain consistency and work in tandem with the Time of Roadway Clearance Field.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		

WV DOT Crash Citation System Requirements

Req. #	Category	Sub-Category/ Field Name	Business (Functional) Requirement	MMUCC 5/6 Required?	MMUCC Reference Information	Priority (High, Med, Low)	Vendor Response	Customization Estimate if Applicable	Capability Planned for Future Release	Core Module(s)	Third Party Solution(s)	Comments/Notes
Crash31	CRASH GENERAL INFO	Time of Roadway Clearance	Provide support for the entry and maintenance of the time of first recordable awareness when all traffic lanes became available for normal traffic flow. This field should be enterable and maintain consistency with the Date of Roadway Clearance Field.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash32	CRASH GENERAL INFO	Date Reported to Law Enforcement	Provide support for the entry and maintenance of the date on which the crash was reported, and law enforcement was dispatched to the scene.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash33	CRASH GENERAL INFO	Time Reported to Law Enforcement	Provide support for the entry and maintenance of the time at which the crash was reported, and law enforcement was dispatched to the scene, be updated in tandem with the Date Reported to Law Enforcement.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash34	CRASH GENERAL INFO	Date of Law Enforcement Arrival	Provide support for the entry and maintenance of the date on which law enforcement arrived at the scene. (Note: This field should allow for law enforcement arrival to occur the next day when the crash occurs close enough to midnight for this to become the next day, and should be validated to ensure it is at or after the Time Reported to Law Enforcement.)			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash35	CRASH GENERAL INFO	Time of Law Enforcement Arrival	Provide support for the entry and maintenance of the time law enforcement arrived at the scene and would work in tandem with the Date of Law Enforcement Arrival. See Date of Law Enforcement Arrival validation criteria.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash36	CRASH LAW ENFORCEMENT LOCN	RR Crossing #	Provide support for the entry and maintenance of a field that indicates if the first harmful occurs at a Railroad Crossing and the number of the crossing. This functionality should conform to the functionality description provided above in the geo-locating tool and be one of the values retrieved from the WV LRS, but also could be overridden by the officer.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash37	CRASH CONDITIONS	Manner of Collision	Provide support for the entry and maintenance of a field to identify the manner in which two motor vehicles in transport initially came together. This data element should identify the orientation of the two Motor Vehicles In-Transport when they are involved in the FIRST HARMFUL EVENT of a collision crash. If the FIRST HARMFUL EVENT is not a collision between two motor vehicles in-transport, it is classified as such.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash38	CRASH CONDITIONS	Environmental Contributing Circumstance 1 - 3	Provide support for the entry and maintenance of a field to identify the Environmental Contributing Circumstances, i.e., environmental conditions that may have contributed to the crash.	Y	Refer to MMUCC 4th Edition (C14. Contributing Circumstances, Environment Definition: Apparent environmental conditions which may have contributed to the crash.)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash39	CRASH CONDITIONS	Weather Condition 1 - 2	Provide support for the entry and maintenance of a field to identify the prevailing atmospheric conditions that existed at the time of the crash.	Y	Refer to MMUCC 6th Edition Data Element Name: C10. Atmospheric Conditions (Definition: The prevailing atmospheric conditions that existed at the time of the crash.)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash40	CRASH CONDITIONS	Light Condition	Provide support for the entry and maintenance of a field to identify the Light Condition, i.e., the type / level of light that existed at the time of the crash.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash41	CRASH CONDITIONS	Road Surface Condition	Provide support for the entry and maintenance of a field to identify the roadway surface condition at the time of the crash.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash42	CRASH CONDITIONS	Road Surface Type	Provide support for pulling the roadway surface type from the WV DOT LRS System, but allow the user to override if the officer on site sees that the information is incorrect. The field is to identify the roadway surface type for the crash.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash43	CRASH CONDITIONS	Road Surface Type - Other	Provide support for pulling the roadway surface type from the WV DOT LRS System, but allow the user to override if the officer on site sees that the information is incorrect. The field is to identify the roadway surface type for the crash.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash44	CRASH CONDITIONS	First Harmful Event Location	Provide support for the entry and maintenance of a field to identify the location of the first injury or damage producing event as it relates to the roadway for the crash.	Y	Refer to MMUCC 6th Edition Data Element Name: C8. Location of First Harmful Event Relative to the Trafficway Element Definition: The location of the FIRST HARMFUL EVENT as it relates to its position within or outside the trafficway.	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash45	CRASH CONDITIONS	First Harmful Event	Provide support for the entry and maintenance of a field to identify the first injury or damage producing event that characterizes the crash type.	Y	Refer to MMUCC 6th Edition Data Element Name: C7. First Harmful Event Element Definition: The first injury- or damage-producing event of the crash.	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash46	CRASH CONDITIONS	Road Contributing Circumstance 1-3	Provide support for the entry and maintenance of a field to record the condition of the road which may have contributed to the crash.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash47	CRASH CONDITIONS	Road CC - Shoulder Problem	Provide support for the entry and maintenance of a field to record the condition of the road related to a shoulder problem that may have contributed to the crash.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash48	CRASH CONDITIONS	Road CC - Traffic Control Device Problem	Provide support for the entry and maintenance of a field to record the condition of the road related to a traffic control device problem that may have contributed to the crash.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash49	CRASH CONDITIONS	Road CC - Work Zone Activity Type	Provide support for the entry and maintenance of a field to record the condition of the road related to a work zone activity type that may have contributed to the crash.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash50	CRASH CONDITIONS	Road CC - Other	Provide support for the entry and maintenance of a field to record the condition of the road which may have contributed to the crash.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash51	CRASH CONDITIONS	Road CC - Work Zone Activity Type	Provide support for the entry and maintenance of a field to record the condition of the road related to a work zone activity type that may have contributed to the crash.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash52	CRASH CONDITIONS	School Zone Related	Provide support for the entry and maintenance of a field that indicates whether the crash occurred within the boundaries of a school zone or as a result of a back-up of traffic in a school zone.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		

WV DOT Crash Citation System Requirements

Req. #	Category	Sub-Category/ Field Name	Business (Functional) Requirement	MMUCC 5th Required?	MMUCC Reference Information	Priority H = High M = Medium L = Low	Vendor Response	Customization Estimate if Applicable	Capability Planned for Future Release	Core Modules	Third Party Solutions	Comments/Notes
Crash53	CRASH CONDITIONS	School Zone Related - Type of Sign	Provide support for the entry and maintenance of a field to indicate the type of sign(s) present at the school zone.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash54	CRASH CONDITIONS	School Zone Related – Flashers	Provide support for the entry and maintenance of a field to indicate whether the school zone signing had flashing lights and whether they were active at the time of the crash.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash55	CRASH CONDITIONS	School Zone Related - SZ Speed Limit	Provide support for the entry and maintenance of a field to identify the speed limit posted in an active school zone.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash56	CRASH CONDITIONS	Work Zone Related	Provide support for the entry and maintenance of a field to indicate whether the crash occurred in or was related to a construction, maintenance, or utility work zone, regardless of the presence of workers at the time of the crash. Also, should indicate if the crash resulted from traffic backed-up past the first warning sign of a work zone.	Y	Refer to MMUCC 6th Edition Data Element Name: C15. Work Zone Element Definition: A crash that occurs in or related to a construction, maintenance, or utility work zone, whether workers were present at the time of the crash or not.	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash57	CRASH CONDITIONS	Work Zone - Workers Present	Provide support for the entry and maintenance of a field to indicate the presence of workers within a work zone at the time of a work zone related crash.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash58	CRASH CONDITIONS	Work Zone - WZ Speed Limit	Provide support for the entry and maintenance of a field to record the posted work zone speed limit.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash59	CRASH CONDITIONS	Work Zone - Location of Crash	Provide support for the entry and maintenance of a field to identify the location of the crash within the work zone in relation to the Traffic Control Plan.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash60	CRASH CONDITIONS	Work Zone - Type of Work Zone	Provide support for the entry and maintenance of a field to identify the type of work zone traffic control plan in place within a work zone.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash61	CRASH CONDITIONS	Work Zone-Law Enforcement Present	Provide support for the entry and maintenance of a field to identify whether law enforcement was present within a work zone.	Y	Refer to MMUCC 6th Data Element Name: C17. Related Factors	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash62	CRASH CONDITIONS	Related Factors — Crash Level	Provide support for the entry and maintenance of a field to identify all other factors related to the crash.	Y	Refer to MMUCC 6th Data Element Name: C17. Related Factors	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash63	CRASH REPORTING	Police Reported	Provide support for the entry and maintenance of a Y/N field to indicate whether this crash report was completed and signed by a law enforcement officer or representative appointed by the law enforcement agency (e.g., a non-sworn officer).	Y	Refer to MMUCC 6th Data Element Name: S3. Police-Reported	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash64	CRASH REPORTING	State Reportable Crash	Provide support for the entry and maintenance of a field to indicate whether the crash meets the State's threshold for a reportable crash and is required to be reported by State law. NOTE (acceptable values): • No - This crash does not meet the State's threshold for a reportable crash and is not required to be reported by State law. • Yes - This crash meets the State's threshold for a reportable crash and is required to be reported by State law.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash65	CRASH REPORTING	Reported By	Provide support for the entry and maintenance of a field to identify the affiliation of the person completing the crash report.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash66	CRASH REPORTING	Photos Taken	Provide support for the entry and maintenance of a field to indicate whether pictures of the crash were taken.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash67	CRASH REPORTING	Photos Taken - By Whom	Provide support for the entry and maintenance of a field to indicate who took the pictures of the crash.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash68	CRASH REPORTING	Video Taped	Provide support for the entry and maintenance of a field to indicate whether video of the crash was taken.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash69	CRASH REPORTING	Video Taped - By Whom	Provide support for the entry and maintenance of a field to indicate who took video of the crash.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash70	CRASH REPORTING	Investigating Officer Name	Provide support for the entry and maintenance of a field to identify the officer responsible for completing the report along with contact information.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash71	CRASH REPORTING	Investigating Officer Number	Provide support for the entry and maintenance of a field to the officer number responsible for completing the crash report and provides contact information.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash72	CRASH REPORTING	Investigating Officer Phone	Provide support for the entry and maintenance of a field to capture the phone number for the investigating officer responsible for completing the crash report.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash73	CRASH REPORTING	ORI Number	Provide support for the entry and maintenance of a field to capture the ORI Number of the agency responsible for the crash report.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash74	CRASH REPORTING	Investigating Officer Agency	Provide support for the entry and maintenance of a field to record/identify the agency responsible for the crash report.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash75	CRASH REPORTING	Assisting Officer 1 - 3	Provide support for the entry and maintenance of a field to identify any additional officers assisting with the crash investigation.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		

WV DOT Crash Citation System Requirements

Req. #	Category	Sub Category/ Field Name	Business (Functional) Requirement	MMUCC 5/6 Required?	MMUCC Reference Information	Priority High Medium Low	Vendor Response	Customization Estimate if Applicable	Capability Planned for Future Release	Core Module(s)	Third Party Solution(s)	Comments/Notes
Crash76	CRASH REPORTING	Reconstructed	Provide support for the entry and maintenance of a field to record whether the crash was reconstructed (or not). Include a pop-up note if 'yes' to remind investigator that this initial report needs submitted and not to wait on reconstruction report.			H	Customization Required to Meet	Medium: Medium customization(s) requiring a total of 80 to 160 hours for specification, development, and unit testing				Proposed solution does not support creation of Crash Reconstruction Reports but can interface with third party system downstream. A checkbox can be added to the crash report record to denote whether a crash reconstruction occurred as well as a pop up message for the user.
Crash77	CRASH REPORTING	Reconstructed - By Whom	Provide support for the entry and maintenance of a field to identify who reconstructed the crash.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash78	CRASH REPORTING	Date of Submission	Provide support for the entry and maintenance of a field to record the date (and time) the crash form was submitted.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash79	VEHICLE INFO	Vehicle Number	Provide support for the entry and maintenance of a field to capture a number that uniquely identifies the vehicle involved in the crash. Vehicles involved in the crash are to be numbered from 1 to n. Finalizing a crash record must validate that there is information for "n" vehicles captured in the crash record. Do not allow an "n+1" vehicle to have information entered unless this field (Vehicle Number) supports the logical entry of the vehicle's information, thus requiring the value in this field to be adjusted.	Y	Refer to MMUCC 6th Edition Data Element Name: V1. Motor Vehicle Number Element (Definition: Motor vehicle number assigned to uniquely identify each motor vehicle involved in the crash.)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash80	VEHICLE INFO	Reporting Agency Record Number	Provide support for the entry and maintenance of a field to capture the agency-specific, unique identifier (for a year) that identifies a crash report. The system must ensure that the Reporting Agency Record Number is unique to the agency (i.e., it can match the Reporting Agency Record Number for another agency) --- that is, the system must prevent the creation of duplicate identifiers under the same agency. The number is provided by the agency itself, not inferred or calculated by the system.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash81	VEHICLE INFO	Vehicle Type	Provide PDF417 barcode scanning for all 50 states and automatically fill in field values from the vehicle registration or license plate. Fill in appropriate fields with the scanned information.				Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash82	VEHICLE INFO	Vehicle Type	Provide support for the entry and maintenance of a field to identify the vehicle's function at the time of the crash.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash83	VEHICLE INFO	Hit and Run	Provide support for the entry and maintenance of a field to indicate whether the vehicle and/or the driver of the vehicle departed the crash scene without stopping to render aid or report the crash.	Y	Refer to MMUCC 6th Edition Data Element Name: V39. Hit-and-Run Element (Definition: Refers to cases where the motor vehicle in-transport is a contact vehicle in the crash and either the vehicle or the driver departs the scene without the driver stopping to render aid or report the crash.)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash84	VEHICLE INFO	Driver Presence	Provide support for the entry and maintenance of a field to indicate whether a vehicle was being operated by a driver at the time of the crash.	Y	Refer to MMUCC 6th Edition Data Element Name: D1. Driver Presence (Definition: A data element that identifies whether a driver was present in this vehicle at the time of the crash.)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash85	VEHICLE INFO	Special Function	Provide support for the entry and maintenance of a field to identify whether a vehicle's was being used for a special purpose at the time of the crash.	Y	Refer to MMUCC 6th Edition Data Element Name: V21. Special Use Element (Definition: The type of authorized special use being served by this motor vehicle regardless of whether the use is marked on the vehicle or aligns to the body type, at the time of the crash. For example, a 15 Passenger van being used as a school bus.)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash86	VEHICLE INFO	Emergency Motor Veh Use	Provide support for the entry and maintenance of a field to identify whether an official motor vehicle that was involved in the crash was on an emergency response.	Y	Refer to MMUCC 6th Edition Data Element Name: V23. Emergency Response Element (Definition: Subfield 1 indicates operation of any motor vehicle that is legally authorized by a government authority to respond to emergencies with or without the use of emergency warning equipment, such as a police vehicle, fire truck, or ambulance while engaged in such response. Subfield 2 indicates the use of emergency warning equipment in this vehicle, such as lights or sirens. Subfield 3 indicates if the vehicle was transporting non-emergency people, such as patients or amputees.)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash87	VEHICLE INFO	Vehicle Used as Bus	Provide support for the entry and maintenance of a field to identify whether vehicle(s) involved in the crash was being utilized as a bus.	Y	Refer to MMUCC 6th Edition Data Element Name: V22. Bus Use Element (Definition: The common type of bus service this vehicle was being used for at the time of the crash or the primary use for the bus if not in service at the time of the crash.)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash88	VEHICLE INFO	Travel Speed	Provide support for the entry and maintenance of a field to indicate the estimated travel speed of the vehicle at the time of the crash.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash89	VEHICLE INFO	GWR or GCWR	Provide support for the entry and maintenance of a field to identify the Gross Vehicle Weight Rating or Gross Combination Weight Rating indicating the weight recommended by the vehicle's manufacturer to be the maximum operational weight for the unit or the maximum operational weight for a combination of units. Note: • When a crash report falls under FMCSA requirements, the system should either hide or show the FMCSA-required fields for data entry.	Y	Refer to MMUCC 6th Edition Data Element Name: V14. Power Unit Gross Vehicle Weight Rating Element (Definition: The value specified by the manufacturer as the recommended maximum loaded weight of a single motor vehicle.)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash90	VEHICLE INFO	Number of Axles	Provide support for the entry and maintenance of a field to record the number of axles on the vehicle involved in the crash.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		

WVDO Crash Citation System Requirements

Req. #	Category	Sub-Category/ Field Name	Business Functional Requirement	MMUCC 5/6 Required?	MMUCC Reference Information	Priority (H = High, M = Medium, L = Low)	Vendor Response	Customization Estimate if Applicable	Capability Planned for Future Release	Core Module(s)	Third Party Solutions	Comments/Notes
Crash91	VEHICLE INFO	Total Occupants	Provide support for the entry and maintenance of a field to indicate the total number of occupants of this vehicle.	Y	Refer to MMUCC 6th Edition Data Element Name: V20. Total Occupants in Motor Vehicle Element (Definition: The total number of injured and uninjured occupants in this motor vehicle involved in the crash, including people in or on the motor vehicle at the time of the crash.)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash92	VEHICLE INFO	Max Occupants	Provide support for the entry and maintenance of a field to indicate the maximum number of individuals the vehicle passenger compartment of this vehicle is designed to hold.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash93	VEHICLE INFO	Displaying Haz Mat Placard	Provide support for the entry and maintenance of a field to indicate whether the vehicle was displaying a hazardous materials placard at the time of the crash.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash94	VEHICLE INFO	Modified Vehicle	Provide support for the entry and maintenance of a field to indicate whether the vehicle has been modified from its original factory designed state.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash95	VEHICLE INFO	Transport for Commerce	Provide support for the entry and maintenance of a field to indicate whether vehicle's primary use is for the transportation of goods, property, or people for commerce.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash96	VEHICLE INFO	Number of Trailing Units	Provide support for the entry and maintenance of a field to identify the number of units trailing the power unit in a combination vehicle.	Y	Refer to MMUCC 6th Edition Data Element Name: V17. Vehicle Trailing Element (Definition: Identify whether this vehicle had any attached trailing units or was towing another motor vehicle.)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash97	VEHICLE INFO	Related Factors — Vehicle Level Element	Provide support for the entry and maintenance of a field to capture factors related to this vehicle to facilitate identifying and tracking ongoing or emerging issues associated with these vehicle characteristics.	Y	Refer to MMUCC 6th Edition Data Element Name: V44. Related Factors — Vehicle Level Element (Definition: Records factors related to this vehicle to identify and track ongoing or emerging issues associated with these vehicle characteristics.)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash98	VEHICLE CREDENTIALS	Owner Names	Provide FID417 barcode scanning for all 50 states and automatically fill in field values from a driver's license. Provide support for the entry and maintenance of a field to identify the individual(s) to whom the vehicle is registered.	Y	Refer to MMUCC 6th Edition Data Element Name: V4. Vehicle Owner and Address (Definition: The name and address of the owner of this vehicle.)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash99	VEHICLE CREDENTIALS	Owner Address	Provide support for the entry and maintenance of a field to identify the point of contact for vehicle owner(s) in the form of an address.	Y	Refer to MMUCC 6th Edition Data Element Name: V4. Vehicle Owner and Address (Definition: The name and address of the owner of this vehicle.)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash100	VEHICLE CREDENTIALS	Owner Home Phone	Provide support for the entry and maintenance of a field to record the vehicle owner's phone number in order to contact them following the crash.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash101	VEHICLE CREDENTIALS	Owner Other Phone	Provide support for the entry and maintenance of a field to record an alternate phone number for contacting the vehicle owner following the crash.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash102	VEHICLE CREDENTIALS	Vehicle Make	Provide support for the entry and maintenance of a field to record the vehicle make. This value should be auto-populated based on the entry of a valid VIN.	Y	Refer to MMUCC 6th Edition Data Element Name: V10. Motor Vehicle Make Element (Definition: The manufacturer-assigned name applied to a group of motor vehicles.)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash103	VEHICLE CREDENTIALS	Vehicle Model	Provide support for the entry and maintenance of a field to record the vehicle model name. This value should be auto-populated based on the entry of a valid VIN.	Y	Refer to MMUCC 6th Edition Data Element Name: V12. Motor Vehicle Model (Definition: The manufacturer-assigned name denoting a family of motor vehicles (within a make) that have a degree of similarity in construction, such as body, chassis, etc.)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash104	VEHICLE CREDENTIALS	Model Year	Provide support for the entry and maintenance of a field to record the year in which the vehicle was manufactured. This value should be auto-populated based on the entry of a valid VIN.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash105	VEHICLE CREDENTIALS	Body Type	Provide support for the entry and maintenance of a field to record the general configuration or shape of a motor vehicle. This value should be auto-populated based on the entry of a valid VIN.	Y	Refer to MMUCC 6th Edition Data Element Name: V13. Motor Vehicle Body Type Category (Definition: The category indicating the general configuration or shape of a motor vehicle distinguished by characteristics such as number of doors, rows of seats, windows, or roof line.)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash106	VEHICLE CREDENTIALS	Color	Provide support for the entry and maintenance of a field to record the color description of the vehicle involved. This value should be auto-populated based on the entry of a valid VIN; however, allow the value to be changed (to support after market color changes to vehicle's original color).			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash107	VEHICLE CREDENTIALS	VIN	Provide support for the entry and maintenance of the vehicle VIN, a unique combination of 17 alphanumeric characters assigned to a specific motor vehicle designated by the manufacturer. The VIN entry should be validated against a validation service to ensure the accuracy of the data entry. Upon successful lookup of the VIN, automatically populate associated attributes such as the auto manufacturer, body type, color, etc. and allow color to be overridden if necessary.	Y	Refer to MMUCC 6th Edition Data Element Name: V2. Vehicle Identification Number (VIN) (Definition: A unique combination of alphanumeric characters assigned to a specific motor vehicle that is designated by the manufacturer.)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash108	VEHICLE CREDENTIALS	Plate Class	Provide support for the entry and maintenance of a field to identify the type of registration for the vehicle.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash109	VEHICLE CREDENTIALS	Plate Number	Provide support for the entry and maintenance of a field to record the combination of letters and numbers displayed on the license plate or tag affixed to the motor vehicle.	Y	Refer to MMUCC 6th Edition Data Element Name: V5. Motor Vehicle License Plate Number (Definition: The alphanumeric identifier or other characters, exactly as displayed, on the registration plate or tag affixed to the motor vehicle.)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash110	VEHICLE CREDENTIALS	Registration State	Provide support for the entry and maintenance of a field to identify the state, territory, government, etc. issuing the license plate for the vehicle.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash111	VEHICLE CREDENTIALS	Registration Year	Provide support for the entry and maintenance of a field to identify the year in which the vehicle's registration expires.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash112	VEHICLE CREDENTIALS	Registration Status	Provide support for the entry and maintenance of a field to identify the indicate whether the vehicle was in compliance with applicable motor vehicle registration laws at the time of the crash.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		

WV DOT Crash Citation System Requirements

Req. #	Category	Sub-Category/ Field Name	Business/Functional Requirement	MMUCC 5/76 Required?	MMUCC Reference Information	Priority (High, Medium, Low)	Vendor Response	Customization Estimate (if Applicable)	Capability Planned for Future Release	Core Modules	Third Party Solutions	Comments/Notes
Crash113	VEHICLE CREDENTIALS	Liability Insurance	Provide support for the entry and maintenance of a field to identify the vehicle involved in the crash was covered by auto liability insurance at the time of the crash.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash114	VEHICLE CREDENTIALS	Insurance Company	Provide support for the entry and maintenance of a field to identify the name of the company insuring the involved vehicle at the time of the crash.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash115	VEHICLE CREDENTIALS	Insurance Policy Number	Provide support for the entry and maintenance of a field to record the insurance policy number covering the involved vehicle.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash116	VEHICLE CREDENTIALS	Insurance Expiration Date	Provide support for the entry and maintenance of a field to identify the date after which the insurance policy is no longer valid.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash117	VEHICLE CREDENTIALS	Insurance Agent	Provide support for the entry and maintenance of a field to identify the point of contact to verify validity of insurance.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash118	VEHICLE SPECIFIC CRASH LOCN	Direction of Travel Prior to Crash	Provide support for the entry and maintenance of a field to record the direction the motor vehicle was traveling prior to the crash.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash119	VEHICLE SPECIFIC CRASH LOCN	Applicable Speed Limit (MPH)	Provide support for the entry and maintenance of a field to record the speed limit which applies to this particular vehicle at the time of the crash.	Y	Refer to MMUCC 6th Edition Data Element Name: V24. Motor Vehicle Posted or Statutory Speed Limit (Definition: The posted or statutory speed limit for this motor vehicle, just prior to this vehicle's involvement in the crash.)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash120	VEHICLE SPECIFIC CRASH LOCN	Roadway Description	Provide support for the entry and maintenance of a field to record the general description of the roadway layout and flow.	Y	Refer to MMUCC 6th Edition Data Element Name: V25. Trafficway Flow Element (Definition: Identify whether the trafficway associated with this vehicle serves one-way or two-way traffic, just prior to this vehicle's involvement in the crash.)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash121	VEHICLE SPECIFIC CRASH LOCN	Median Barrier Presence	Provide support for the entry and maintenance of a field to identify whether the trafficway associated with this vehicle included a median barrier, just prior to this vehicle's involvement in the crash.	Y	Refer to MMUCC 6th Edition Data Element Name: V26. Median Barrier Presence Element (Definition: identify whether the trafficway associated with this vehicle included a median barrier, just prior to this vehicle's involvement in the crash.)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash122	VEHICLE SPECIFIC CRASH LOCN	Total Lanes in Roadway	Provide support for the entry and maintenance of a field to record the number of lanes on the roadway which the vehicle was traveling. Populate this value from the WV DOT LRS System with ability for the user to override.	Y	Refer to MMUCC 6th Edition Data Element Name: V27. Number of Open Lanes in Vehicle's Environment Element (Definition: Total number of open lanes in this motor vehicle's environment, just prior to this vehicle's involvement in the crash, including through lanes, turn lanes, acceleration or deceleration lanes, HOT or HOV lanes, or any other lanes.)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash123	VEHICLE SPECIFIC CRASH LOCN	Traffic Control Device	Provide support for the entry and maintenance of a field to identify the type of traffic control device that was applicable to the vehicle at the crash location.	Y	Refer to MMUCC 6th Edition Data Element Name: V31. Traffic Control Device Element (Definition: The traffic control device (TCD) applicable to this motor vehicle, just prior to this vehicle's involvement in the crash.)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash124	VEHICLE SPECIFIC CRASH LOCN	Traffic Control Device Function	Provide support for the entry and maintenance of a field to indicate whether the traffic control device that was applicable to the vehicle was functioning properly at the time of the crash.	Y	Refer to MMUCC 6th Edition Data Element Name: V32. Device Functioning (Definition: identify whether the traffic control device recorded for this vehicle in the data element TRAFFIC CONTROL DEVICE was functioning properly, just prior to this vehicle's involvement in the crash.)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash125	VEHICLE SPECIFIC CRASH LOCN	Horizontal Roadway Alignment	Provide support for the entry and maintenance of a field to indicate the horizontal geometry or layout of the roadway in the direction the vehicle was traveling.	Y	Refer to MMUCC 6th Edition Data Element Name: V28. Roadway Alignment Element (Definition: The geometric or layout characteristics of the roadway in the direction of travel for this vehicle, just prior to this vehicle's involvement in the crash.)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash126	VEHICLE SPECIFIC CRASH LOCN	Vertical Roadway Alignment (Roadway Grade)	Provide support for the entry and maintenance of a field to indicate the vertical geometry or layout of the roadway in the direction the vehicle was traveling.	Y	Refer to MMUCC 6th Edition Data Element Name: V29. Roadway Grade (Definition: The inclination characteristics of the roadway in the direction of travel for this vehicle, just prior to this vehicle's involvement in the crash.)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash127	VEHICLE SPECIFIC CRASH LOCN	Roadway Surface Condition	Provide support for the entry and maintenance of a field to identify the roadway surface condition for this vehicle, just prior to this vehicle's involvement in the crash.	Y	Refer to MMUCC 6th Edition Data Element Name: V30. Roadway Surface Condition Element (Definition: The roadway surface condition for this vehicle, just prior to this vehicle's involvement in the crash.)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash128	VEHICLE SPECIFIC CRASH LOCN	Property Damaged	Provide support for the entry and maintenance of a field to indicate property which was damaged by this vehicle during the crash.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash129	VEHICLE SPECIFIC CRASH LOCN	Property Damage - Pole Number	Provide support for the entry and maintenance of a field to indicate the number of the pole that was damaged by a vehicle during the crash.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash130	VEHICLE SPECIFIC CRASH LOCN	Property Damage Owner	Provide support for the entry and maintenance of a field to identify the owner of the property damaged in the crash.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash131	VEHICLE SPECIFIC CRASH LOCN	Property Damage Owner - Other	Provide support for the entry and maintenance of a field to identify the owner of the property damaged in the crash.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash132	VEHICLE SPECIFIC CRASH LOCN	Property Damage Location	Provide support for the entry and maintenance of a field to describe the location of property damaged by this vehicle.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash133	VEHICLE CRASH EVENTS	Impact Role	Provide support for the entry and maintenance of a field to identify the role that the vehicle played in the crash.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		

WV DOT Crash Citation System Requirements

Req. #	Category	Sub-Category/ Field Name	Business/Functional Requirement	MMUCC Info Required?	MMUCC Reference Information	Priority to Implement Feature	Vendor/Response	Customization Estimate if Applicable	Capability Planned for Future Release	Core Modules	Third Party Solutions	Comments/Notes
Crash134	VEHICLE CRASH EVENTS	Underride/Override	Provide support for the entry and maintenance of a field to identify whether the crash involved a vehicle that either slides under or rides up on another vehicle during a crash.	Y	Refer to MMUCC 6th Edition Data Element Name: V42, Vehicle Underride or Override Element (Definition: Indicates whether this vehicle experienced an underride or override with another vehicle during the crash. An underride refers to this motor vehicle sliding under another motor vehicle during a crash. An override refers to this motor vehicle riding up over another motor vehicle during a crash. Either can occur with a parked or working motor vehicle.)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash135	VEHICLE CRASH EVENTS	Vehicle Maneuver/Action (Vehicle Status Prior to Critical Event)	Provide support for the entry and maintenance of a field to record the controlled maneuver of this vehicle prior to the beginning of the sequence of events.	Y	Refer to MMUCC 6th Edition Data Element Name: V33, Vehicle Status Prior to Critical Event Element (Definition: The controlled maneuver for this motor vehicle, just prior to this vehicle's involvement in the crash.)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash136	VEHICLE CRASH EVENTS	Crash Avoidance Maneuver	Provide support for the entry and maintenance of a field to record the maneuver of the vehicle at the onset of the crash to attempt to prevent the crash.	Y	Refer to MMUCC 6th Edition Data Element Name: D7, Attempted Avoidance Maneuver Element (Definition: identify movements or actions taken by the driver after the driver realizes there is an impending danger. This element assesses what the driver's action was in response to this realization.)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash137	VEHICLE CRASH EVENTS	Contributing Circumstances, Motor Vehicle Element	Provide support for the entry and maintenance of a field to record re-existing motor vehicle defects or maintenance conditions that may have contributed to the crash.	Y	Refer to MMUCC 6th Edition Data Element Name: V41, Contributing Circumstances, Motor Vehicle Element (Definition: Pre-existing motor vehicle defects or maintenance conditions that may have contributed to the occurrence or severity of the crash.)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash138	VEHICLE CRASH EVENTS	Occurrence of Fire	Provide support for the entry and maintenance of a field to indicate whether a vehicle fire occurred as a result of the crash or as a result of vehicle equipment failure or malfunction.	Y	Refer to MMUCC 6th Edition Data Element Name: V43, Fire Occurrence Element (Definition: Identify whether a fire in any way related to the crash occurred in this vehicle.)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash139	VEHICLE CRASH EVENTS	Sequence of Events	Provide support for the entry and maintenance of a field to record the most important sequential crash events of this motor vehicle.	Y	Refer to MMUCC 6th Edition Data Element Name: V37, Sequence of Events Element (Definition: Events in sequence related to this motor)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash140	VEHICLE CRASH EVENTS	Most Harmful Event	Provide support for the entry and maintenance of a field to record the single event that resulted in the most severe injury involving this motor vehicle. If no one was injured, the event responsible for producing the greatest property damage to this vehicle.	Y	Refer to MMUCC 6th Edition Data Element Name: V38, Most Harmful Event for this Motor Vehicle (Definition: Event that resulted in the most severe injury or, if no injury, the greatest property damage involving this motor vehicle.)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash141	VEHICLE CRASH DAMAGE	Extent of Damage	Provide support for the entry and maintenance of a field to record the estimation of the total damage to the vehicle in the crash.	Y	Refer to MMUCC 6th Edition Data Element Name: V36, Extent of Damage Element (Definition: Identify the extent to which the damage identified in DAMAGED AREAS affects the vehicle's operability rather than the cost to repair.)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash142	VEHICLE CRASH DAMAGE	Manner Left Scene (Vehicle Towed)	Provide support for the entry and maintenance of a field to describe how the vehicle was removed from the scene following the crash.	Y	Refer to MMUCC 6th Edition Data Element Name: V40, Vehicle Towed Element (Definition: Identify whether the vehicle was towed or carried from the scene of the crash.)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash143	VEHICLE CRASH DAMAGE	Towed To	Provide support for the entry and maintenance of a field to indicate where a vehicle that was towed from the scene was taken following the crash.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash144	VEHICLE CRASH DAMAGE	Towed By	Provide support for the entry and maintenance of a field to indicate who was responsible for towing a disabled or damaged vehicle following the crash.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash145	VEHICLE CRASH DAMAGE	Vehicle Damage Diagram Type	The system shall allow entry of multiple vehicle records for a single crash, with each vehicle assigned one body type. For each vehicle, the system shall provide a diagram-based tool to record both the initial contact point (single-select) and all applicable damaged areas (multi-select). If "No Damage" is selected, the extent of damage must automatically be set to "No Damage" and no other damage areas may be selected. The vehicle may also include motorcycle, tractor/trailer, etc.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash146	VEHICLE CRASH DAMAGE	Damaged Area(s)	Provide support for the entry and maintenance of a field to indicate the areas of the vehicle receiving damage in the crash.	Y	Refer to MMUCC 6th Edition Data Element Name: V35, Damaged Areas Element (Definition: Identify all areas damaged on the vehicle as a result of this crash.)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash147	VEHICLE CRASH DAMAGE	Area of Initial Impact (Initial Contact Point)	Provide support for the entry and maintenance of a field to record the indicate the area of the vehicle that received the initial impact in the crash.	Y	Refer to MMUCC 6th Edition Data Element Name: V34, Initial Contact Point (Definition: The approximate contact point (depicted on a clock-point diagram) for this vehicle associated with this vehicle's first harmful event.)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash148	VEHICLE CRASH DAMAGE	Most Damaged Area	Provide support for the entry and maintenance of a field to indicate the area of the vehicle that received the most damage in the crash.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash149	VEHICLE TRAILING UNITS INFO	Trailing Unit 1 Owner Same As Power Unit	Provide PDF417 barcode scanning for all 50 states and automatically fill in field values from the vehicle registration or license plate. Fill in appropriate fields with the scanned information.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash150	VEHICLE TRAILING UNITS INFO	Trailing Unit 1 Owner Same As Power Unit	Provide support for the entry and maintenance of a field to indicate if the owner of the trailing unit is the same as the power unit.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash151	VEHICLE TRAILING UNITS INFO	Trailing Unit 1 Owner Name	Provide support for the entry and maintenance of a field to indicate the identify the motor carrier or owner of the trailing unit(s).			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash152	VEHICLE TRAILING UNITS INFO	Trailing Unit 1 Address	Provide support for the entry and maintenance of a field to indicate the contact information for the motor carrier or owner of the trailing unit(s).			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash153	VEHICLE TRAILING UNITS INFO	Trailing Unit 1 City	Provide support for the entry and maintenance of a field to indicate the contact information for the motor carrier or owner of the trailing unit(s).			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash154	VEHICLE TRAILING UNITS INFO	Trailing Unit 1 State	Provide support for the entry and maintenance of a field to indicate the contact information for the motor carrier or owner of the trailing unit(s).			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		

WV DOT Crash Citation System Requirements

Req. #	Category	Sub-Category/ Field Name	Business (Functional) Requirement	MMUCC 5/6 Required?	MMUCC Reference Information	Priority H/M/L	Vendor Response	Customization Estimate If Applicable	Capability Planned for Future Release	Core Module(s)	Third Party Solution(s)	Comments/Notes
Crash155	VEHICLE TRAILING UNITS INFO	Trailing Unit 1 Zip	Provide support for the entry and maintenance of a field to indicate the contact information for the motor carrier or owner of the trailing unit(s).			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash156	VEHICLE TRAILING UNITS INFO	Trailing Unit 1 Phone	Provide support for the entry and maintenance of a field to indicate the contact information for the motor carrier or owner of the trailing unit(s).			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash157	VEHICLE TRAILING UNITS INFO	Trailing Unit 1 VIN	Provide support for the entry and maintenance of a field to record the unique combination of letters and numbers assigned to a specific motor vehicle.	Y	Refer to MMUCC 6th Edition Data Element Name: V18, Trailer VIN Element (Definition: A unique combination of alphanumeric characters assigned to each trailer designated by the manufacturer.)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash158	VEHICLE TRAILING UNITS INFO	Trailing Unit 1 License Plate Class	Provide support for the entry and maintenance of a field to record the type of registration for this trailing unit.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash159	VEHICLE TRAILING UNITS INFO	Trailing Unit 1 License Plate Number	Provide support for the entry and maintenance of a field to record the combination of letters and numbers displayed on the registration plate or tag affixed to the trailing unit.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash160	VEHICLE TRAILING UNITS INFO	Trailing Unit 1 Registration State	Provide support for the entry and maintenance of a field to identify the state, territory, government, etc. issuing the registration plate for the trailing unit.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash161	VEHICLE TRAILING UNITS INFO	Trailing Unit 1 Registration Year	Provide support for the entry and maintenance of a field to record the year in which the trailing unit's registration expires.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash162	VEHICLE TRAILING UNITS INFO	Trailing Unit 1 Make	Provide support for the entry and maintenance of a field to record the distinctive name distinguishing a motor vehicle's manufacturer.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash163	VEHICLE TRAILING UNITS INFO	Trailing Unit 1 Model	Provide support for the entry and maintenance of a field to record the manufacturer assigned name denoting a group of vehicles that have a degree of similarity in construction.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash164	VEHICLE TRAILING UNITS INFO	Trailing Unit 1 Model Year	Provide support for the entry and maintenance of a field to record the year in which the trailing unit was manufactured.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash165	VEHICLE TRAILING UNITS INFO	Trailing Unit 1 Body Type	Provide support for the entry and maintenance of a field to record the indicate the general configuration or shape of a motor vehicle.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash166	VEHICLE TRAILING UNITS INFO	Trailing Unit 2 Owner Same As Power Unit	Provide support for the entry and maintenance of a field to indicate if the owner of the trailing unit is the same as the power unit.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash167	VEHICLE TRAILING UNITS INFO	Trailing Unit 2 Owner Name	Provide support for the entry and maintenance of a field to record the identify individual(s) to whom the vehicle is registered.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash168	VEHICLE TRAILING UNITS INFO	Trailing Unit 2 Address	Provide support for the entry and maintenance of a field to provide a point of contact for the vehicle owner(s).			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash169	VEHICLE TRAILING UNITS INFO	Trailing Unit 2 City	Provide support for the entry and maintenance of a field to provide a point of contact for the vehicle owner(s).			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash170	VEHICLE TRAILING UNITS INFO	Trailing Unit 2 State	Provide support for the entry and maintenance of a field to provide a point of contact for the vehicle owner(s).			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash171	VEHICLE TRAILING UNITS INFO	Trailing Unit 2 Zip	Provide support for the entry and maintenance of a field to provide a point of contact for the vehicle owner(s).			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash172	VEHICLE TRAILING UNITS INFO	Trailing Unit 2 Phone	Provide support for the entry and maintenance of a field to provide a means of contacting the vehicle owner following the crash.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash173	VEHICLE TRAILING UNITS INFO	Trailing Unit 2 VIN	Provide support for the entry and maintenance of a field to record the unique combination of letters and numbers assigned to a specific motor vehicle.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash174	VEHICLE TRAILING UNITS INFO	Trailing Unit 2 License Plate Class	Provide support for the entry and maintenance of a field to indicate the type of registration for this trailing unit.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash175	VEHICLE TRAILING UNITS INFO	Trailing Unit 2 License Plate Number	Provide support for the entry and maintenance of a field to record the combination of letters and numbers displayed on the registration plate or tag affixed to the trailing unit.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash176	VEHICLE TRAILING UNITS INFO	Trailing Unit 2 Registration State	Provide support for the entry and maintenance of a field to identify the state, territory, government, etc. issuing the registration plate for the trailing unit.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash177	VEHICLE TRAILING UNITS INFO	Trailing Unit 2 Registration Year	Provide support for the entry and maintenance of a field to identify the year in which the trailing unit's registration expires.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash178	VEHICLE TRAILING UNITS INFO	Trailing Unit 2 Make	Provide support for the entry and maintenance of a field to record the distinctive name distinguishing a motor vehicle's manufacturer.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash179	VEHICLE TRAILING UNITS INFO	Trailing Unit 2 Model	Provide support for the entry and maintenance of a field to record the manufacturer assigned name denoting a group of vehicles that have a degree of similarity in construction.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash180	VEHICLE TRAILING UNITS INFO	Trailing Unit 2 Model Year	Provide support for the entry and maintenance of a field to record the year in which the trailing unit was manufactured.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		

WVDOT Crash Citation System Requirements

Req. #	Category	Sub-Category/ Field Name	Business/Functional Requirement	MMUCC 5/6 Required?	MMUCC (Reference Information)	Priority H = High M = Medium L = Low	Vendor Response	Customization Estimate if Applicable	Capability Planned for Future Release	Core Modules	Third Party Solutions	Comments/Notes
Crash181	VEHICLE TRAILING UNITS INFO	Trailing Unit 2 Body Type	Provide support for the entry and maintenance of a field to record the general configuration or shape of a motor vehicle.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash182	VEHICLE TRAILING UNITS INFO	Trailing Unit 3 Owner Same As Power Unit	Provide support for the entry and maintenance of a field to indicate if the owner of the trailing unit is the same as the power unit. Further, triple towing is not permitted in West Virginia, and, as a result, a popup warning or reminder should be issued to the law enforcement officer entering the crash report denoting that this is a violation.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash183	VEHICLE TRAILING UNITS INFO	Trailing Unit 3 Owner Name	Provide support for the entry and maintenance of a field to record the individual(s) to whom the vehicle is registered.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash184	VEHICLE TRAILING UNITS INFO	Trailing Unit 3 Address	Provide support for the entry and maintenance of a field to record the provide a point of contact for vehicle owner(s).			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash185	VEHICLE TRAILING UNITS INFO	Trailing Unit 3 City	Provide support for the entry and maintenance of a field to provide a point of contact for vehicle owner(s).			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash186	VEHICLE TRAILING UNITS INFO	Trailing Unit 3 State	Provide support for the entry and maintenance of a field to provide a point of contact for vehicle owner(s).			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash187	VEHICLE TRAILING UNITS INFO	Trailing Unit 3 Zip	Provide support for the entry and maintenance of a field to provide a point of contact for vehicle owner(s).			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash188	VEHICLE TRAILING UNITS INFO	Trailing Unit 3 Phone	Provide support for the entry and maintenance of a field to provide a means to contact the vehicle owner following the crash.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash189	VEHICLE TRAILING UNITS INFO	Trailing Unit 3 VIN	Provide support for the entry and maintenance of a field to record the unique combination of letters and numbers assigned to a specific motor vehicle.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash190	VEHICLE TRAILING UNITS INFO	Trailing Unit 3 License Plate Class	Provide support for the entry and maintenance of a field to indicate the type of registration for this trailing unit.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash191	VEHICLE TRAILING UNITS INFO	Trailing Unit 3 License Plate Number	Provide support for the entry and maintenance of a field to record the combination of letters and numbers displayed on the registration plate or tag affixed to the trailing unit.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash192	VEHICLE TRAILING UNITS INFO	Trailing Unit 3 Registration State	Provide support for the entry and maintenance of a field to identify the state, territory, government, etc. issuing the registration plate for the trailing unit.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash193	VEHICLE TRAILING UNITS INFO	Trailing Unit 3 Registration Year	Provide support for the entry and maintenance of a field to identify the year in which the trailing unit's registration expires.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash194	VEHICLE TRAILING UNITS INFO	Trailing Unit 3 Make	Provide support for the entry and maintenance of a field to record the distinctive name distinguishing a motor vehicle's manufacturer.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash195	VEHICLE TRAILING UNITS INFO	Trailing Unit 3 Model	Provide support for the entry and maintenance of a field to record the manufacturer assigned name denoting a group of vehicles that have a degree of similarity in construction.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash196	VEHICLE TRAILING UNITS INFO	Trailing Unit 3 Model Year	Provide support for the entry and maintenance of a field to record the year in which the trailing unit was manufactured.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash197	VEHICLE TRAILING UNITS INFO	Trailing Unit 3 Body Type	Provide support for the entry and maintenance of a field to indicate the general configuration or shape of a motor vehicle.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash198	VEHICLE CMV INFO	VEHICLE CMV INFO LINK	Provide support for the entry and maintenance of a field to indicate if a link CMV data to Vehicle Number from Vehicle Data Page. The system shall provide support for the entry and maintenance of a field to link Commercial Motor Vehicle (CMV) data to the corresponding Vehicle Number from the Vehicle Data Page. This link shall be triggered when the CMV condition is met. The system shall also support integration with driver logbook data to provide relevant CMV information. Rewritten requirement : Provide support for a single, editable field that creates a link between a Commercial Motor Vehicle (CMV) record and the Vehicle Number. This field shall indicate whether the link is "present" (e.g., "Yes") or "absent" (e.g., "No"). When a record satisfies the defined "CMV condition" (i.e., the business rule that identifies a vehicle as a CMV), the system shall automatically set the link field to "Yes" and establish the association with the corresponding Vehicle Number. Authorized users should be able to add, modify, or remove the link at any time through the same entry screen used for the Vehicle Data Page. The solution shall integrate driver-logbook data so that any CMV-related logbook information is available when the link is viewed or edited.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash199	VEHICLE CMV INFO	Motor Carrier Name	Provide support for the entry and maintenance of a field to indicate the identify the name of the business entity, individual, partnership, corporation, or religious organization responsible for the transportation of persons or property contained in the CMV.	Y	Refer to MMUCC 6th Edition Data Element Name: V7. Motor Carrier or Responsible Entity Name and Address (Definition: The name and address of the business entity, individual, partnership, corporation, or organization responsible for the transportation of people or property. Multiple sub-fields associated with this data element.)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		

WVDOT Crash Citation System Requirements

Req. #	Category	Sub-Category/ Field Name	Business (Function), Requirement	MMUCC 5/6 Required?	MMUCC Reference Information	Vendor Response	Customization Estimate # Applicable	Capability Planned for Future Release	Core Marklets?	Third Party Solutions?	Comments/Notes
Crash200	VEHICLE CMV INFO	Motor Carrier Address	Provide support for the entry and maintenance of a field to identify the address of the principle place of business of an individual, partnership or corporation responsible for the transportation of persons or property contained in the CMV.	Y	Refer to MMUCC 6th Edition Data Element Name: V7, Motor Carrier or Responsible Entity Name and Address (Definition: Multiple sub-fields associated with this data element)	H			Enforcement Mobile Crash Reporting		
Crash201	VEHICLE CMV INFO	Motor Carrier City	Provide support for the entry and maintenance of a field to identify the address of the principle place of business of an individual, partnership or corporation responsible for the transportation of persons or property contained in the CMV.	Y	Refer to MMUCC 6th Edition Data Element Name: V7, Motor Carrier or Responsible Entity Name and Address (Definition: The name and address of the business entity, individual, partnership, corporation, or organization responsible for the transportation of people or property. Multiple sub-fields associated with this data element)	H			Enforcement Mobile Crash Reporting		
Crash202	VEHICLE CMV INFO	Motor Carrier State	Provide support for the entry and maintenance of a field to identify the address of the principle place of business of an individual, partnership or corporation responsible for the transportation of persons or property contained in the CMV.	Y	Refer to MMUCC 6th Edition Data Element Name: V7, Motor Carrier or Responsible Entity Name and Address (Definition: The name and address of the business entity, individual, partnership, corporation, or organization responsible for the transportation of people or property. Multiple sub-fields associated with this data element)	H			Enforcement Mobile Crash Reporting		
Crash203	VEHICLE CMV INFO	Motor Carrier Zip Code	Provide support for the entry and maintenance of a field to identify the address of the principle place of business of an individual, partnership or corporation responsible for the transportation of persons or property contained in the CMV.	Y	Refer to MMUCC 6th Edition Data Element Name: V7, Motor Carrier or Responsible Entity Name and Address (Definition: Multiple sub-fields associated with this data element)	H			Enforcement Mobile Crash Reporting		
Crash204	VEHICLE CMV INFO	Motor Carrier Country	Provide support for the entry and maintenance of a field to identify the address/country of the principle place of business of an individual, partnership or corporation responsible for the transportation of persons or property contained in the CMV.	Y	Refer to MMUCC 6th Edition Data Element Name: V7, Motor Carrier or Responsible Entity Name and Address (Definition: The name and address of the business entity, individual, partnership, corporation, or organization responsible for the transportation of people or property. Multiple sub-fields associated with this data element)	H			Enforcement Mobile Crash Reporting		
Crash205	VEHICLE CMV INFO	Motor Carrier US DOT Number	Provide support for the entry and maintenance of a field to record the unique identifier assigned to an individual, partnership, or corporation responsible for the transportation of persons or property contained in the CMV by the US DOT for any commercial carrier with a Gross Vehicle Weight Rating equal to or greater than 10,001 pounds or designed to carry greater than eight passengers, including the driver.	Y	Refer to MMUCC 6th Edition Data Element Name: V5, Motor Carrier or Responsible Entity Identification Element (Definition: The identification number (or numbers) of the business entity, individual, partnership, corporation, or organization responsible for the transportation of people or property.)	H			Enforcement Mobile Crash Reporting		
Crash206	VEHICLE CMV INFO	Motor Vehicle Registration State or Country	Provide support for the entry and maintenance of a field to indicate the Motor Vehicle Registration State or Country (i.e., The State, commonwealth, territory, Indian Nation, U.S. Government, foreign country, etc., issuing the registration plate displayed on the motor vehicle..	Y	Refer to MMUCC 6th Edition Data Element Name: V8, Motor Vehicle Registration State or Country, note that Canada and Mexico support is also required.	H			Enforcement Mobile Crash Reporting		
Crash207	VEHICLE CMV INFO	Motor Carrier State ID Number	Provide support for the entry and maintenance of a field to record the unique identifier assigned to an individual, partnership or corporation responsible for the transportation of persons or property contained in the CMV by the State for any commercial carrier not eligible for a US DOT Number.	Y	Refer to MMUCC 6th Edition Data Element Name: V5, Motor Carrier or Responsible Entity Identification Element (Definition: The identification number (or numbers) of the business entity, individual, partnership, corporation, or organization responsible for the transportation of people or property.) Note that Canada and Mexico support is also required.	H			Enforcement Mobile Crash Reporting		
Crash208	VEHICLE CMV INFO	Lessee Lessor Name	Provide support for the entry and maintenance of a field to identify an individual, partnership, or corporation transporting persons or property contained in the CMV.			H			Enforcement Mobile Crash Reporting		
Crash209	VEHICLE CMV INFO	Lessee Lessor Address	Provide support for the entry and maintenance of a field to identify the address of an individual, partnership, or corporation transporting persons or property contained in the CMV.			H			Enforcement Mobile Crash Reporting		
Crash210	VEHICLE CMV INFO	Lessee Lessor City	Provide support for the entry and maintenance of a field to identify the address of an individual, partnership, or corporation transporting persons or property contained in the CMV.			H			Enforcement Mobile Crash Reporting		
Crash211	VEHICLE CMV INFO	Lessee Lessor State	Provide support for the entry and maintenance of a field to identify the address of an individual, partnership, or corporation transporting persons or property contained in the CMV.			H			Enforcement Mobile Crash Reporting		
Crash212	VEHICLE CMV INFO	Lessee Lessor Zip Code	Provide support for the entry and maintenance of a field to identify the address of an individual, partnership, or corporation transporting persons or property contained in the CMV.			H			Enforcement Mobile Crash Reporting		
Crash213	VEHICLE CMV INFO	Lessee Lessor US DOT Number	Provide support for the entry and maintenance of a field to identify the unique identifier assigned to an individual, partnership, or corporation transporting persons or property contained in the CMV, for any commercial carrier with a Gross Vehicle Weight Rating equal to or greater than 10,001 pounds or designed to carry greater than eight passengers, including the driver.			H			Enforcement Mobile Crash Reporting		
Crash214	VEHICLE CMV INFO	Lessee Lessor State ID Number	Provide support for the entry and maintenance of a field to identify the unique identifier assigned to an individual, partnership or corporation transporting persons or property contained in the CMV by the State for any commercial carrier not eligible for a US DOT Number.			H			Enforcement Mobile Crash Reporting		
Crash215	VEHICLE CMV INFO	Carrier Classification	Provide support for the entry and maintenance of a field to identify the category of operating authority for the entity recorded in the Carrier Name.	Y	Refer to MMUCC 6th Edition Data Element Name: V6, Type of Motor Carrier or Responsible Entity Element (Definition: The type of business entity, individual, partnership, corporation, or organization responsible for the transportation of people or property.)	H			Enforcement Mobile Crash Reporting		
Crash216	VEHICLE CMV INFO	Carrier Information Source	Provide support for the entry and maintenance of a field to identify the source of the Commercial Carrier Information provided on this page.			H			Enforcement Mobile Crash Reporting		
Crash217	VEHICLE CMV INFO	Carrier Information Source - Other	Provide support for the entry and maintenance of a field to identify the source of the Commercial Carrier Information provided on this page.			H			Enforcement Mobile Crash Reporting		
Crash218	VEHICLE CMV INFO	Placard Number - Top	Provide support for the entry and maintenance of a field to identify the type of hazardous material the CMV was carrying, regardless of whether a spill occurred. The system shall provide a field to record the Hazardous Materials Placard Top Number (hazard class/division) when a vehicle is placarded. The value shall be validated against the list of DOT hazard classes and divisions in 49 CFR.			H			Enforcement Mobile Crash Reporting		

WV DOT Crash Citation System Requirements

Req. #	Category	Sub-Category/ Field Name	Business (Functional) Requirement	MMUCC 5th Required?	MMUCC Reference Information	Priority (H=High, M=Medium, L=Low)	Vendor Response	Customization Estimate if Applicable	Capability Planned for Future Release	Core Modules	Third Party Solutions	Comments/Notes
Crash219	VEHICLE CMV INFO	Placard Number – Bottom	Provide support for the entry and maintenance of a field to identify the type of hazardous material the CMV was carrying, regardless of whether a spill occurred. The system shall provide a field to record the Hazardous Materials Placard (Bottom Number (UN/NA four-digit number) when a vehicle is placarded. The value shall be validated as a four-digit numeric code that matches the Hazardous Materials Table in 49 CFR.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash220	VEHICLE CMV INFO	Release of Hazardous Materials	Provide support for the entry and maintenance of a field to indicate whether the vehicle's hazardous material was spilled from its cargo compartment.	Y	Refer to MMUCC 6th Edition Data Element Name: Hazardous Materials (Definition: Indication of the hazardous materials identification and class being transported by the motor vehicle, and whether hazardous materials were released.)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash221	VEHICLE CMV INFO	CRTS Crash	Provide support for the entry and maintenance of a field to identify crashes occurring on specially designated CRTS Routes.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash222	VEHICLE CMV INFO	CMV Configuration	Provide support for the entry and maintenance of a field to indicate the general size and design of this motor vehicle.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash223	VEHICLE CMV INFO	Commercial Cargo Body Type	Provide support for the entry and maintenance of a field to record the CMV's primary cargo carrying capability.	Y	Refer to MMUCC 6th Edition Data Element Name: VTS Cargo Body Type (Power Unit Only) Element (Definition: The primary cargo-carrying capability of this vehicle.)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash224	VEHICLE CMV INFO	GVWR - Power Unit	Provide support for the entry and maintenance of a field to indicate the weight recommended by the vehicle's manufacturer to be the recommended maximum loaded weight of the power unit.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash225	VEHICLE CMV INFO	GCWR - All Units	Provide support for the entry and maintenance of a field to indicate the weight recommended by the vehicle's manufacturer to be the total of the recommended maximum loaded weights of all units of a combination (articulated) motor vehicle.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash226	VEHICLE CMV INFO	Last Known Commodity	Provide support for the entry and maintenance of a field to identify the last known commodity carried by this CMV.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash227	VEHICLE CMV INFO	Cargo Compartment Empty or Full	Provide support for the entry and maintenance of a field to indicate whether the CMV was loaded at the time of the crash.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash228	VEHICLE CMV INFO	# of Passengers in CMV	Provide support for the entry and maintenance of a field to indicate the number of passengers in a commercial motor vehicle.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash229	VEHICLE CMV INFO	Passenger Permission	Provide support for the entry and maintenance of a field to indicate whether the passengers of a commercial motor vehicle were traveling with written permission of the carrier.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash230	VEHICLE CMV INFO	CMV Self Insured	Provide support for the entry and maintenance of a field to indicate whether the commercial motor vehicle involved in the crash was self-insured.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash231	VEHICLE CMV INFO	Proof of Self Insurance	Provide support for the entry and maintenance of a field to indicate whether the commercial motor vehicle involved in the crash was self-insured.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash232	PERSON INVOLVED INDIVIDUALS	Individual Number	Provide support for the entry and maintenance of a field to assign a unique identifying number to each individual involved in a crash. Comments: • Semantically, Individual Number defines individuals that may exist in multiple contexts, and the solution will need to accommodate these. For example: • Each individual involved in a crash will need to be identified with a unique number (1-N) to identify the person/individual • An individual can be a driver, passenger, vehicle/trailer owner, or non-motorist, and will be associated with a Vehicle Number that uniquely identifies the vehicle in each crash record • As a driver, the driver's credentials will need to be captured • As a driver, any violation and/or citations will need to be captured • As a passenger, they will be tied to a specific Vehicle Number involved in the crash • As an involved non-motorist, the non-motorist (individual) will be tied to the crash • The Individual Number will be tied to a description of the individual's related injuries, treatment, and possible death	Y	Refer to MMUCC 6th Edition Data Element Name: P1. Person Number. (Definition: This element identifies a number for the motor vehicle occupant in the motor vehicle they occupied, or for each non-motorist, in consecutive order.)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash233	PERSON INVOLVED INDIVIDUALS	Reporting Agency Record Number	Provide support for the entry and maintenance of a field to record an agency-specific, unique identifier for the given year that identifies the crash report.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash234	PERSON INVOLVED INDIVIDUALS	Last Name	Provide support for the entry and maintenance of a field to identify person involved in crash.	Y	Refer to MMUCC 6th Edition Data Element Name: P2. Name of Person Involved (Definition: A data element to record the name of the individual involved in the crash.)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash235	PERSON INVOLVED INDIVIDUALS	First Name	Provide support for the entry and maintenance of a field to identify person involved in crash.	Y	Refer to MMUCC 6th Edition Data Element Name: P2. Name of Person Involved (Definition: A data element to record the name of the individual involved in the crash.)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash236	PERSON INVOLVED INDIVIDUALS	Middle Initial	Provide support for the entry and maintenance of a field to identify person involved in crash.	Y	Refer to MMUCC 6th Edition Data Element Name: P2. Name of Person Involved (Definition: A data element to record the name of the individual involved in the crash.)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash237	PERSON INVOLVED INDIVIDUALS	Suffix	Provide support for the entry and maintenance of a field to identify person involved in crash.	Y	Refer to MMUCC 6th Edition Data Element Name: P2. Name of Person Involved (Definition: A data element to record the name of the individual involved in the crash.)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		

WVDOT Crash Citation System Requirements

Req. #	Category	Sub Category/Field Name	Business (Functional) Requirement	MMUCC 5/6 Required?	MMUCC Reference Information	MMUCC 5/6	Vendor Response	Customization Estimate If Applicable	Capability Planned for Future Release	Core Module(s)	Third Party Solution(s)	Comments/Notes
Crash238	PERSON INVOLVED INDIVIDUALS	Occupant/Person Type	Provide support for the entry and maintenance of a field to identify the role of an individual involved in a crash.	Y	Refer to MMUCC 6th Edition Data Element Name: P5. Person Type Element (Definition: The role of this person involved in the crash.)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash239	PERSON INVOLVED INDIVIDUALS	Social Security	Provide support for the entry and maintenance of a field to record the Social Security Number of the individual involved in the crash.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash240	PERSON INVOLVED INDIVIDUALS	Date of Birth	Provide support for the entry and maintenance of a field to identify the birthdate of the involved individual.	Y	Refer to MMUCC 6th Edition Data Element Name: P3. Date of Birth (Definition: A data element to record the date of birth of the person involved in this crash.)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash241	PERSON INVOLVED INDIVIDUALS	Age	Provide support for the entry and maintenance of the age of the involved individual at the time of the crash.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash242	PERSON INVOLVED INDIVIDUALS	Gender	Provide support for the entry and maintenance of a field to identify the sex of the person involved in the crash.	Y	Refer to MMUCC 6th Edition Data Element Name: P4. Sex or Gender (Definition: A data element to record the sex or gender of the person involved in the crash.)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash243	PERSON INVOLVED INDIVIDUALS	Person Special Function	Provide support for the entry and maintenance of a field to record whether this person involved in the crash was performing a unique function at the time of the crash.	Y	Refer to MMUCC 6th Edition Data Element Name: P6. Special Function Element (Definition: Identifies if this person involved in the crash was performing a unique function at the time of the crash.)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash244	PERSON INJURY	Injury Severity	Provide support for the entry and maintenance of a field to indicate the injury severity level for an individual involved in a crash.	Y	Refer to MMUCC 6th Edition Data Element Name: P7. Injury Status (Definition: Identifies the injury severity level for a person involved in a crash using the KABCO scale.)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash245	PERSON INJURY	Medical Transport	Provide support for the entry and maintenance of a field to indicate whether and by whom an individual was transported from the crash scene for medical treatment.	Y	Refer to MMUCC 6th Edition Data Element Name: P8. Transported to First Medical Facility By (Definition: A data element for the Type of unit providing transport to the first medical facility receiving the patient)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash246	PERSON INJURY	EMS Response Agency ID	Provide support for the entry and maintenance of a field to identify the EMS Agency responsible for transporting an individual.	Y	Refer to MMUCC 6th Edition Data Element Name: P9. EMS Response Agency Element (Definition: The agency identifier and run number of the EMS agency that responded to this crash and attended to this person.)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash247	PERSON INJURY	EMS Run Number	Provide support for the entry and maintenance of a field that uniquely identifies the EMS Response Run Number for an individual.	Y	Refer to MMUCC 6th Edition Data Element Name: P9. EMS Response Agency Element (Definition: The agency identifier and run number of the EMS agency that responded to this crash and attended to this person.)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash248	PERSON INJURY	Receiving Medical Facility Name	Provide support for the entry and maintenance of a field to identify the health care facility which received an individual for medical treatment who was involved in a crash.	Y	Refer to MMUCC 6th Edition Data Element Name: P10. Medical Facility Receiving Patient Element (Definition: Name of the first hospital, clinic, or trauma center that received the patient for treatment.)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash249	PERSON INJURY	EMS UUIID	Provide support for the entry and maintenance of a field to record the Universally Unique Identifier of the EMS patient care report for this person.	Y	Refer to MMUCC 6th Edition Data Element Name: P11. EMS UUIID Element (Definition: The Universally Unique Identifier of the EMS patient care report for this person.)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash250	PERSON INJURY	EMS Notified Time	Provide support for the entry and maintenance of a field to indicate the time at which a particular EMS unit was first called to the scene of a crash.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash251	PERSON INJURY	EMS Scene Time	Provide support for the entry and maintenance of a field to indicate the time at which this particular EMS unit arrived at the scene of a crash.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash252	PERSON INJURY	EMS Hospital Time	Provide support for the entry and maintenance of a field to indicate the time at which this particular EMS unit arrived at the receiving facility.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash253	PERSON INJURY	Date of Death	Provide support for the entry and maintenance of a field to indicate the date of death for an individual who died at the scene or within 30 days of being injured in a crash as a result of those injuries.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash254	PERSON INJURY	Time of Death	Provide support for the entry and maintenance of a field to indicate the time at which an individual, who died as a result of injuries received in a crash, died.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash255	PERSON INJURY	Place of Death	Provide support for the entry and maintenance of a field to indicate the location at the time of their death of the person who died as a result of injuries received in a crash.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash256	PERSON DRIVER CREDENTIALS	Driver Same as Vehicle Owner	Provide support for the entry and maintenance of a field to indicate whether the driver is the same as the vehicle owner.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash257	PERSON DRIVER CREDENTIALS	Address	Provide support for the entry and maintenance of a field to indicate the point of contact (i.e., address) for drivers involved in a crash.	Y	Refer to MMUCC 6th Edition Data Element Name: D2. Driver Address (Definition: A data element to record physical address of the driver of this vehicle.)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash258	PERSON DRIVER CREDENTIALS	City	Provide support for the entry and maintenance of a field to indicate the point of contact (i.e., address) for drivers involved in a crash.	Y	Refer to MMUCC 6th Edition Data Element Name: D2. Driver Address (Definition: A data element to record physical address of the driver of this vehicle.)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash259	PERSON DRIVER CREDENTIALS	State	Provide support for the entry and maintenance of a field to indicate the point of contact (i.e., address) for drivers involved in a crash.	Y	Refer to MMUCC 6th Edition Data Element Name: D2. Driver Address (Definition: A data element to record physical address of the driver of this vehicle.)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash260	PERSON DRIVER CREDENTIALS	Zip Code	Provide support for the entry and maintenance of a field to indicate the point of contact (i.e., address) for drivers involved in a crash.	Y	Refer to MMUCC 6th Edition Data Element Name: D2. Driver Address (Definition: A data element to record physical address of the driver of this vehicle.)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash261	PERSON DRIVER CREDENTIALS	Home Phone	Provide support for the entry and maintenance of a field to provide a point of contact (i.e., phone number) for drivers involved in a crash.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash262	PERSON DRIVER CREDENTIALS	Other Phone	Provide support for the entry and maintenance of a field to provide a point of contact (i.e., alternate phone number) for drivers involved in a crash.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		

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Req. #	Category	Sub-Category/ Field Name	Business Functional Requirement	MMJCC 5/6 Required?	MMJCC Reference Information	Priority 1 - High 2 - Medium 3 - Low	Vendor Response	Customization Estimate if Applicable	Capability Planned for Future Release	Core Modules	Third Party Solutions	Comments/Notes
Crash263	PERSON DRIVER CREDENTIALS	License Type	Provide support for the entry and maintenance of a field to identify the type of driving license issued to a driver, as well as indicates the classification of Commercial Vehicles for which a driver with a CDL license is permitted to operate.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash264	PERSON DRIVER CREDENTIALS	CDL Class	Provide support for the entry and maintenance of a field to indicate the CDL Class in which the driver is licensed.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash265	PERSON DRIVER CREDENTIALS	Issuing State	Provide support for the entry and maintenance of a field to identify the State in which the person's driving license was issued.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash266	PERSON DRIVER CREDENTIALS	License Number	Provide support for the entry and maintenance of a field to record the unique number assigned to a driver by the issuing agency.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash267	PERSON DRIVER CREDENTIALS	Lic Restriction - None	Provide support for the entry and maintenance of a field to identify restrictions placed on the driver by a license examiner at the time of licensing.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash268	PERSON DRIVER CREDENTIALS	Lic Restriction - Corrective Lenses	Provide support for the entry and maintenance of a field to identify whether corrective lenses is a restriction placed on the driver by a license examiner at the time of licensing.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash269	PERSON DRIVER CREDENTIALS	Lic Restriction - Mech Devices	Provide support for the entry and maintenance of a field to identify restrictions placed on the driver by a license examiner at the time of licensing.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash270	PERSON DRIVER CREDENTIALS	Lic Restriction - Prosthetic Aid	Provide support for the entry and maintenance of a field to identify restrictions placed on the driver by a license examiner at the time of licensing.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash271	PERSON DRIVER CREDENTIALS	Lic Restriction - Auto Transmission	Provide support for the entry and maintenance of a field to identify restrictions placed on the driver by a license examiner at the time of licensing.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash272	PERSON DRIVER CREDENTIALS	Lic Restriction - Outside Mirror	Provide support for the entry and maintenance of a field to identify restrictions placed on the driver by a license examiner at the time of licensing.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash273	PERSON DRIVER CREDENTIALS	Lic Restriction - Daylight Only	Provide support for the entry and maintenance of a field to identify restrictions placed on the driver by a license examiner at the time of licensing.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash274	PERSON DRIVER CREDENTIALS	Lic Restriction - Employment	Provide support for the entry and maintenance of a field to identify restrictions placed on the driver by a license examiner at the time of licensing.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash275	PERSON DRIVER CREDENTIALS	Lic Restriction - Accompanied by Adult	Provide support for the entry and maintenance of a field to identify restrictions placed on the driver by a license examiner at the time of licensing.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash276	PERSON DRIVER CREDENTIALS	Lic Restriction - Limited Other	Provide support for the entry and maintenance of a field to identify restrictions placed on the driver by a license examiner at the time of licensing.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash277	PERSON DRIVER CREDENTIALS	Lic Restriction - CDL Intrastate Only	Provide support for the entry and maintenance of a field to identify restrictions placed on the driver by a license examiner at the time of licensing.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash278	PERSON DRIVER CREDENTIALS	Lic Restriction - Veh w/o Air Brakes	Provide support for the entry and maintenance of a field to identify restrictions placed on the driver by a license examiner at the time of licensing.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash279	PERSON DRIVER CREDENTIALS	Lic Restriction - Military Veh	Provide support for the entry and maintenance of a field to identify restrictions placed on the driver by a license examiner at the time of licensing.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash280	PERSON DRIVER CREDENTIALS	Lic Restriction - Except Class A Bus	Provide support for the entry and maintenance of a field to identify restrictions placed on the driver by a license examiner at the time of licensing.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash281	PERSON DRIVER CREDENTIALS	Lic Restriction - Except Class A and B Bus	Provide support for the entry and maintenance of a field to identify restrictions placed on the driver by a license examiner at the time of licensing.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash282	PERSON DRIVER CREDENTIALS	Lic Restriction - Except Tractor Trailer	Provide support for the entry and maintenance of a field to identify restrictions placed on the driver by a license examiner at the time of licensing.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash283	PERSON DRIVER CREDENTIALS	Lic Restriction - Farm Waiver	Provide support for the entry and maintenance of a field to identify restrictions placed on the driver by a license examiner at the time of licensing.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash284	PERSON DRIVER CREDENTIALS	Lic Restriction - Other	Provide support for the entry and maintenance of a field to identify restrictions placed on the driver by a license examiner at the time of licensing.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash285	PERSON DRIVER CREDENTIALS	Lic Restriction - Other Specific	Provide support for the entry and maintenance of a field to identify restrictions placed on the driver by a license examiner at the time of licensing.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash286	PERSON DRIVER CREDENTIALS	License Endorsements 1 - 5	Provide support for the entry and maintenance of a field to indicate whether driver has successfully completed a specialized test that qualifies them to operate specific types of vehicles, allowing up to five (5) different entries.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash287	PERSON DRIVER CREDENTIALS	License Status	Provide support for the entry and maintenance of a field to indicate the status of the driving license at the time of the crash.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash288	DRIVER CONDITIONS INFO	Driver Condition	Provide support for the entry and maintenance of a field to indicate the believed condition of the driver at the time of the crash.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		

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Req. #	Category	Sub-Category/ Field Name	Business (Functional) Requirement	MMUCC 5/6 Required?	MMUCC Reference Information	Priority (High, Medium, Low)	Vendor Response	Customization Estimate if Applicable	Capability Planned for Future Release	Core Modules?	Third Party Solutions	Comments/Notes
Crash289	DRIVER CONDITIONS INFO	Related Factors - Driver Level	Provide support for the entry and maintenance of a field to identify factors related to this driver.	Y	Refer to MMUCC 6th Edition Data Element Name: D10. Related Factors - Driver Level Element. (Definition: Identifies factors related to this driver.)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash290	DRIVER CONDITIONS INFO	Driver Action 1 - 4	Provide support for the entry and maintenance of a field to indicate the actions of a driver that in the reporting officer's opinion contributed to a crash, allowing up to four (4) values.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash291	DRIVER CONDITIONS INFO	Alcohol Suspected	Provide support for the entry and maintenance of a field to indicate law enforcement suspicion that the driver was under the influence of alcohol at the time of the crash.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash292	DRIVER CONDITIONS INFO	Alcohol Test Given	Provide support for the entry and maintenance of a field to indicate whether a test was given to determine the presence of alcohol.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash293	DRIVER CONDITIONS INFO	Alcohol Test Type 1 - 2	Provide support for the entry and maintenance of a field to indicate the type of test used to collect alcohol concentration, supporting up to two (2) values.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash294	DRIVER CONDITIONS INFO	Alcohol Test Type - Other	Provide support for the entry and maintenance of a field to indicate the type of test used to collect alcohol concentration (as a freeform text field).			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash295	DRIVER CONDITIONS INFO	PBT Results	Provide support for the entry and maintenance of a field to indicate whether the driver passed or failed a Preliminary Breath Test.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash296	DRIVER CONDITIONS INFO	Alcohol Test Results	Provide support for the entry and maintenance of a field to indicate the blood alcohol concentration found when the suspected impaired driver was tested.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash297	DRIVER CONDITIONS INFO	Drug Use Suspected	Provide support for the entry and maintenance of a field to indicate law enforcement suspicion that the driver was under the influence of drugs at the time of the crash.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash298	DRIVER CONDITIONS INFO	Drug Test Given	Provide support for the entry and maintenance of a field to indicate whether a test was given to determine the presence of drugs.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash299	DRIVER CONDITIONS INFO	Drug Test Type	Provide support for the entry and maintenance of a field to indicate the type of test used to detect drugs.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash300	DRIVER CONDITIONS INFO	Driver - No Drugs Found	Provide support for the entry and maintenance of a field to indicate if drugs were found in driver's system.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash301	DRIVER CONDITIONS INFO	Driver - Marijuana	Provide support for the entry and maintenance of a field to indicate if marijuana was found in driver's system.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash302	DRIVER CONDITIONS INFO	Driver - Cocaine	Provide support for the entry and maintenance of a field to indicate if cocaine was found in driver's system.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash303	DRIVER CONDITIONS INFO	Driver - Opiate	Provide support for the entry and maintenance of a field to indicate if opiate was found in driver's system.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash304	DRIVER CONDITIONS INFO	Driver - Amphetamine	Provide support for the entry and maintenance of a field to indicate if amphetamine was found in driver's system.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash305	DRIVER CONDITIONS INFO	Driver - PCP	Provide support for the entry and maintenance of a field to indicate if PCP was found in driver's system.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash306	DRIVER CONDITIONS INFO	Driver - Other Controlled Substance	Provide support for the entry and maintenance of a field to indicate if another controlled substance was found in driver's system.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash307	DRIVER CONDITIONS INFO	Driver - Other Drug Found	Provide support for the entry and maintenance of a field to indicate the other drug found.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash308	DRIVER CONDITIONS INFO	Driver - Results Pending	Provide support for the entry and maintenance of a field to indicate if the drug results are pending. Provide a pull down box showing that the results are being completed by: State Police Lab, Hospital, or Other.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash309	DRIVER CONDITIONS INFO	Distracted By	Provide support for the entry and maintenance of a field to indicate driver distractions in or out of the vehicle that may have contributed to the crash.	Y	Refer to MMUCC 6th Edition Data Element Name: D6. Driver Distraction (Definition: Identifies this driver's attention to driving prior to the driver's realization of an impending critical event or just prior to the realization of an impending critical event does not occur. This element reports on the presence of any distractions that may or may not have contributed to the crash. Distraction from the primary task of driving occurs when drivers divert their attention from the driving task to some other activity.)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash310	DRIVER CONDITIONS INFO	Driver's Vision Obscured by	Provide support for the entry and maintenance of a field to record impediments to a driver's visual field.	Y	Refer to MMUCC 6th Edition Data Element Name: D6. Driver's Vision Obscured By (Definition: This data element records impediments to a driver's visual field.)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash311	DRIVER VIOLATION	DVio - No Violations	Provide support for the entry and maintenance of a field to indicate if there were violations given to the driver.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash312	DRIVER VIOLATION	DVio - Negligent Homicide	Provide support for the entry and maintenance of a field to indicate if a negligent homicide violation was given to the driver.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		

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Req. #	Category	Sub-Category/ Field Name	Business/Functional Requirement	MMUCC 5th Required?	MMUCC Reference Information	Priority of Requirement	Vendor Response	Customization Estimate if Applicable	Capability Planned for Future Release	Core Modules	Third Party Solutions	Comments/Notes
Crash313	DRIVER VIOLATION	DVio - Reckless Driving	Provide support for the entry and maintenance of a field to indicate if a reckless driving violation was given to the driver.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash314	DRIVER VIOLATION	DVio - Inattentive, Careless Improper Driving	Provide support for the entry and maintenance of a field to indicate if a improper driving violation was given to the driver.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash315	DRIVER VIOLATION	DVio - Fleeting or Eluding Law Enforcement	Provide support for the entry and maintenance of a field to indicate if a fleeting or eluding law enforcement violation was given to the driver.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash316	DRIVER VIOLATION	DVio - Failure to Obey LE	Provide support for the entry and maintenance of a field to indicate if a failure to obey LE violation was given to the driver.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash317	DRIVER VIOLATION	DVio - Hit and Run, Failure to Stop	Provide support for the entry and maintenance of a field to indicate if a hit & run violation was given to the driver.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash318	DRIVER VIOLATION	DVio - Serious Violation Resulting in Death	Provide support for the entry and maintenance of a field to indicate if a serious violation that resulted in death was given to the driver.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash319	DRIVER VIOLATION	DVio - DW Intoxicated or BAC Above Limit	Provide support for the entry and maintenance of a field to indicate if a DW intoxicated or BAC above limit violation was given to the driver.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash320	DRIVER VIOLATION	DVio - DW Impaired	Provide support for the entry and maintenance of a field to indicate if a DW impaired violation was given to the driver.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash321	DRIVER VIOLATION	DVio - DUI of Controlled Substance	Provide support for the entry and maintenance of a field to indicate if a DUI of Controlled Substance violation was given to the driver.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash322	DRIVER VIOLATION	DVio - DUI of Non- Controlled Substance	Provide support for the entry and maintenance of a field to indicate if a DUI of Non-Controlled Substance violation was given to the driver.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash323	DRIVER VIOLATION	DVio - Drinking While Operating	Provide support for the entry and maintenance of a field to indicate if a drinking while operating violation was given to the driver.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash324	DRIVER VIOLATION	DVio - Illegal Possession of Alcohol or Drugs	Provide support for the entry and maintenance of a field to indicate if an Illegal Possession of Alcohol or Drugs violation was given to the driver.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash325	DRIVER VIOLATION	DVio - Driving w/ Detectable Alcohol	Provide support for the entry and maintenance of a field to indicate if a Driving w/ Detectable Alcohol violation was given to the driver.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash326	DRIVER VIOLATION	DVio - Refusal to Submit to Chemical Test	Provide support for the entry and maintenance of a field to indicate if a Refusal to Submit to Chemical Test violation was given to the driver.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash327	DRIVER VIOLATION	DVio - Failure to Maintain Control of Vehicle	Provide support for the entry and maintenance of a field to indicate if a Failure to Maintain Control of Vehicle violation was given to the driver.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash328	DRIVER VIOLATION	DVio - Racing	Provide support for the entry and maintenance of a field to indicate if a Racing violation was given to the driver.	Y	Refer to MMUCC 6th Edition Data Element Name: D5. Speeding-Related Element (Definition: The investigating officer indicates that the driver involved in the crash was speeding).	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash329	DRIVER VIOLATION	DVio - Speeding (Above SL)	Provide support for the entry and maintenance of a field to indicate if a Speeding violation was given to the driver.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash330	DRIVER VIOLATION	DVio - Speed Greater than Prudent	Provide support for the entry and maintenance of a field to indicate if a Speed Greater than Prudent violation was given to the driver.	Y	Refer to MMUCC 6th Edition Data Element Name: D5. Speeding-Related Element (Definition: The investigating officer indicates that the driver involved in the crash was speeding).	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash331	DRIVER VIOLATION	DVio - Exceeding Special Limit	Provide support for the entry and maintenance of a field to indicate if a Exceeding Special Limit violation was given to the driver.	Y	Refer to MMUCC 6th Edition Data Element Name: D5. Speeding-Related Element (Definition: The investigating officer indicates that the driver involved in the crash was speeding).	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash332	DRIVER VIOLATION	DVio - Driving too Slowly	Provide support for the entry and maintenance of a field to indicate if a Driving too Slowly violation was given to the driver.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash333	DRIVER VIOLATION	DVio - Failure to Stop for Red Signal	Provide support for the entry and maintenance of a field to indicate if a Failure to Stop for Red Signal violation was given to the driver.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash334	DRIVER VIOLATION	DVio - Failure to Stop for Flashing Red Signal	Provide support for the entry and maintenance of a field to indicate if a Failure to Stop for Flashing Red Signal violation was given to the driver.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash335	DRIVER VIOLATION	DVio - Violation of Turn on Red	Provide support for the entry and maintenance of a field to indicate if a Violation of Turn on red violation was given to the driver.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash336	DRIVER VIOLATION	DVio - Failure to Obey Flashing Signal - Y or R	Provide support for the entry and maintenance of a field to indicate if a Failure to Obey Flashing Signal violation was given to the driver.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash337	DRIVER VIOLATION	DVio - Failure to Obey Signal - Generally	Provide support for the entry and maintenance of a field to indicate if a Failure to Obey Signal violation was given to the driver.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash338	DRIVER VIOLATION	DVio - Violation of RR Grade Crossing	Provide support for the entry and maintenance of a field to indicate if a Violation of RR Grade Crossing violation was given to the driver.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		

WV DOT Crash Citation System Requirements

Req. #	Category	Sub-Category/ Field Name	Business (Functional) Requirement	MMUCC 5/6 Requirement	MMUCC Reference Information	Priority (High/Low)	Vendor Response	Customization Estimate If Applicable	Capability Planned For Future Release	Core Module(s)	Third Party Solution(s)	Comments/Notes
Crash339	DRIVER VIOLATION	DVio - Failure to Obey STOP Sign	Provide support for the entry and maintenance of a field to indicate if a Failure to Obey STOP Sign violation was given to the driver.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash340	DRIVER VIOLATION	DVio - Failure to Obey YIELD Sign	Provide support for the entry and maintenance of a field to indicate if a Failure to Obey YIELD Sign violation was given to the driver.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash341	DRIVER VIOLATION	DVio - Failure to Obey Traffic Control Device	Provide support for the entry and maintenance of a field to indicate if a Failure to Obey Traffic Control Device violation was given to the driver.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash342	DRIVER VIOLATION	DVio - Unsafe or Prohibited Lane Change	Provide support for the entry and maintenance of a field to indicate if a Unsafe or Prohibited Lane Change violation was given to the driver.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash343	DRIVER VIOLATION	DVio - Improper Use of Lane	Provide support for the entry and maintenance of a field to indicate if an improper Use of Lane violation was given to the driver.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash344	DRIVER VIOLATION	DVio - Certain Traffic to Use Right Lane	Provide support for the entry and maintenance of a field to indicate if a Certain Traffic to Use Right Lane violation was given to the driver.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash345	DRIVER VIOLATION	DVio - Lane Violations Generally	Provide support for the entry and maintenance of a field to indicate if a Lane Violations Generally violation was given to the driver.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash346	DRIVER VIOLATION	DVio - Driving Wrong Way on 1 Way St	Provide support for the entry and maintenance of a field to indicate if a Driving Wrong Way on 1 Way St violation was given to the driver.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash347	DRIVER VIOLATION	DVio - Driving on Left, Wrong Side of Rd	Provide support for the entry and maintenance of a field to indicate if a Driving on Left, Wrong Side of Rd violation was given to the driver.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash348	DRIVER VIOLATION	DVio - Improper Unsafe Passing	Provide support for the entry and maintenance of a field to indicate if an Improper Unsafe Passing violation was given to the driver.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash349	DRIVER VIOLATION	DVio - Passing on Rt	Provide support for the entry and maintenance of a field to indicate if a Passing on Rt violation was given to the driver.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash350	DRIVER VIOLATION	DVio - Passing Stopped School Bus	Provide support for the entry and maintenance of a field to indicate if a Passing Stopped School Bus violation was given to the driver.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash351	DRIVER VIOLATION	DVio - Failure to Give Way	Provide support for the entry and maintenance of a field to indicate if a Failure to Give Way violation was given to the driver.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash352	DRIVER VIOLATION	DVio - Following Too Closely	Provide support for the entry and maintenance of a field to indicate if a Following Too Closely violation was given to the driver.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash353	DRIVER VIOLATION	DVio - Wrong Side, Generally	Provide support for the entry and maintenance of a field to indicate if a Wrong Side violation was given to the driver.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash354	DRIVER VIOLATION	DVio - Turn in Violation of Traffic Control	Provide support for the entry and maintenance of a field to indicate if a Turn in Violation of Traffic Control violation was given to the driver.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash355	DRIVER VIOLATION	DVio - Improper Method and Position of Turn	Provide support for the entry and maintenance of a field to indicate if an Improper Method and Position of Turn violation was given to the driver.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash356	DRIVER VIOLATION	DVio - Failure to Signal for Turn or Stop	Provide support for the entry and maintenance of a field to indicate if a Failure to Signal for Turn or Stop violation was given to the driver.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash357	DRIVER VIOLATION	DVio - Failure to Yield to Emerg Veh	Provide support for the entry and maintenance of a field to indicate if a Failure to Yield to Emerg Veh violation was given to the driver.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash358	DRIVER VIOLATION	DVio - Failure to Yield Generally	Provide support for the entry and maintenance of a field to indicate if a Failure to Yield Generally violation was given to the driver.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash359	DRIVER VIOLATION	DVio - Enter Intersection w/ Insufficient Space	Provide support for the entry and maintenance of a field to indicate if a Enter Intersection w/ Insufficient Space violation was given to the driver.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash360	DRIVER VIOLATION	DVio - DW License Suspended	Provide support for the entry and maintenance of a field to indicate if a DW License Suspended violation was given to the driver.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash361	DRIVER VIOLATION	DVio - Other License Restrictions	Provide support for the entry and maintenance of a field to indicate if a Other License Restrictions violation was given to the driver.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash362	DRIVER VIOLATION	DVio - Commercial Driver Violations	Provide support for the entry and maintenance of a field to indicate if a Commercial Driver Violations violation was given to the driver.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash363	DRIVER VIOLATION	DVio - Vehicle Registration Violations	Provide support for the entry and maintenance of a field to indicate if a Vehicle Registration Violations violation was given to the driver.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash364	DRIVER VIOLATION	DVio - Failure to Carry Insurance Card	Provide support for the entry and maintenance of a field to indicate if a Failure to Carry Insurance Card violation was given to the driver.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		

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Req. #	Category	Sub-Category/ Field Name	Business/Functional Requirement	MMUCC 5th Required?	MMUCC Reference Information	Priority of Requirement	Vendor Response	Customization Estimate if Applicable	Capability Planned for Future Release	Core Module(s)	Third Party Solution(s)	Comment/Notes
Crash365	DRIVER VIOLATION	DVio - Driving Uninsured Vehicle	Provide support for the entry and maintenance of a field to indicate if a Driving Uninsured Vehicle violation was given to the driver.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash366	DRIVER VIOLATION	DVio - Non-Moving Violations Generally	Provide support for the entry and maintenance of a field to indicate if a Non-Moving violation was given to the driver.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash367	DRIVER VIOLATION	DVio - Lamp Violations	Provide support for the entry and maintenance of a field to indicate if a Lamp violation was given to the driver.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash368	DRIVER VIOLATION	DVio - Brake Violations	Provide support for the entry and maintenance of a field to indicate if a Brake violation was given to the driver.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash369	DRIVER VIOLATION	DVio - Failure to Require Restraint Use	Provide support for the entry and maintenance of a field to indicate if a Failure to Require Restraint Use violation was given to the driver.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash370	DRIVER VIOLATION	DVio - MC Equipment Violations	Provide support for the entry and maintenance of a field to indicate if a MC Equipment violation was given to the driver.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash371	DRIVER VIOLATION	DVio - Vio of Haz Cargo Regs	Provide support for the entry and maintenance of a field to indicate if a Haz Cargo Regs violation was given to the driver.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash372	DRIVER VIOLATION	DVio - Size Wgt. Load Violations	Provide support for the entry and maintenance of a field to indicate if a Size Wgt. Load violation was given to the driver.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash373	DRIVER VIOLATION	DVio - Equip Vio Generally	Provide support for the entry and maintenance of a field to indicate if a Equip violation was given to the driver.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash374	DRIVER VIOLATION	DVio - Parking	Provide support for the entry and maintenance of a field to indicate if a Parking violation was given to the driver.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash375	DRIVER VIOLATION	DVio - Theft, Unauthorized Use of Veh	Provide support for the entry and maintenance of a field to indicate if a Theft, Unauthorized Use of Veh violation was given to the driver.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash376	DRIVER VIOLATION	DVio - Driving where Prohibited	Provide support for the entry and maintenance of a field to indicate if a Driving where Prohibited violation was given to the driver.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash377	DRIVER VIOLATION	DVio - Other Moving Violation	Provide support for the entry and maintenance of a field to indicate if an Other Moving violation was given to the driver.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash378	DRIVER VIOLATION	Citation Charge 1 - 4	Provide support for the entry and maintenance of a field to indicate a citation given to the driver not listed above, allowing up to four (4) entries and include the ability to start an Electronic Citation from this box that would import the date, time, driver, vehicle, etc.	Y	Refer to MMUCC 6th Edition Data Element Name: D9. Citations Issued Element (Definition: The violations, citations, or infractions of the State's vehicle code issued to this driver in this crash, regardless of whether the driver survived the crash.)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash379	DRIVER VIOLATION	Citation Code 1 - 4	Provide support for the entry and maintenance of a field to indicate the code of a citation given to the driver not listed above, allowing up to four (4) entries.	Y	Refer to MMUCC 6th Edition Data Element Name: D9. Citations Issued Element (Definition: The violations, citations, or infractions of the State's vehicle code issued to this driver in this crash, regardless of whether the driver survived the crash.)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash380	DRIVER VIOLATION	Citation Number 1 - 4	Provide support for the entry and maintenance of a field to indicate the number of a citation given to the driver not listed above, allowing up to four (4) entries.	Y	Refer to MMUCC 6th Edition Data Element Name: D9. Citations Issued Element (Definition: The violations, citations, or infractions of the State's vehicle code issued to this driver in this crash, regardless of whether the driver survived the crash.)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash381	DRIVER VIOLATION	Warning 1 - 4	Provide support for the entry and maintenance of a field to indicate if said citation was a warning, allowing up to four (4) entries.	Y	Refer to MMUCC 6th Edition Data Element Name: D9. Citations Issued Element (Definition: The violations, citations, or infractions of the State's vehicle code issued to this driver in this crash, regardless of whether the driver survived the crash.)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash382	DRIVER INVOLVED INDIVIDUALS INFO	Seating Position Row	Provide support for the entry and maintenance of a field to indicate the location of an individual in, on, or outside of the motor vehicle prior to the crash.	Y	Refer to MMUCC 6th Edition Data Element Name: P13. Seating Position Element (Definition: The location for this occupant in, on, or outside of the motor vehicle prior to the first event in the SEQUENCE OF EVENTS.)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash383	DRIVER INVOLVED INDIVIDUALS INFO	Seating Position Seat	Provide support for the entry and maintenance of a field to indicate the location of an individual in, on, or outside of the motor vehicle prior to the crash.	Y	Refer to MMUCC 6th Edition Data Element Name: P13. Seating Position Element (Definition: The location for this occupant in, on, or outside of the motor vehicle prior to the first event in the SEQUENCE OF EVENTS.)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash384	DRIVER INVOLVED INDIVIDUALS INFO	Seating Position Other	Provide support for the entry and maintenance of a field to indicate the location of an individual in, on, or outside of the motor vehicle prior to the crash.	Y	Refer to MMUCC 6th Edition Data Element Name: P13. Seating Position Element (Definition: The location for this occupant in, on, or outside of the motor vehicle prior to the first event in the SEQUENCE OF EVENTS.)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash385	DRIVER INVOLVED INDIVIDUALS INFO	Occupant Protection Type	Provide support for the entry and maintenance of a field to indicate the restraint equipment in use by a vehicle occupant or helmet use by a motorcyclist, ATV Rider, etc. at the time of the crash.	Y	Refer to MMUCC 6th Edition Data Element Name: P14. Restraint System Use Element (Definition: The restraint equipment in use by the occupant and any indication of improper use of the available restraint system at the time of the crash.)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash386	DRIVER INVOLVED INDIVIDUALS INFO	Occupant Protection Proper Use	Provide support for the entry and maintenance of a field to indicate whether the occupant protection being used by an individual was being used properly.	Y	Refer to MMUCC 6th Edition Data Element Name: P14. Restraint System Use Element (Definition: The restraint equipment in use by the occupant and any indication of improper use of the available restraint system at the time of the crash.)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		

WV DOT Crash Citation System Requirements

Req. #	Category	Sub-Category/ Field Name	Business (Functional) Requirement	MMUCC 5/6 Required?	MMUCC Reference Information	Priority Level	Vendor Response	Customization Estimate if Applicable	Capability Planned for Future Release	Core Module(s)	Third Party Solution(s)	Comments/Notes
Crash387	DRIVER INVOLVED INDIVIDUALS INFO	Approved Helmet (Helmet Use)	Provide support for the entry and maintenance of a field to indicate whether the helmet used by a motorcyclist, ATV Rider, etc. was an appropriate and approved helmet.	Y	Refer to MMUCC 6th Edition Data Element Name: P15. Helmet Use Element (Definition: Records the type of helmet in use, and any indications of misuse of the helmet, by motor vehicle occupants of MOTOR VEHICLE BODY TYPE CATEGORY All-Terrain Vehicle or All-Terrain Cycle (ATV or ATC), Snowmobile, Moped, Multipurpose Off-Highway Utility Vehicle (MOHUV) or Recreational Off-Highway Vehicle (ROV), 2-Wheeled Motorcycle, 3-Wheeled Motorcycle (trike), and Autocycle at the time of the crash.)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash388	DRIVER INVOLVED INDIVIDUALS INFO	Air Bag Deployed	Provide support for the entry and maintenance of a field to indicate airbag deployment, relative to an individual's seating position.	Y	Refer to MMUCC 6th Edition Data Element Name: P16. Air Bag Deployed Element (Definition: Deployment status of an air bag relative to the position in the vehicle for this occupant.)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash389	DRIVER INVOLVED INDIVIDUALS INFO	Trapped-Extricated	Provide support for the entry and maintenance of a field to indicate whether an individual was trapped in the vehicle as a result of the crash.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash390	DRIVER INVOLVED INDIVIDUALS INFO	Ejected	Provide support for the entry and maintenance of a field to indicate whether an individual was completely or partially thrown from the interior of the motor vehicle.	Y	Refer to MMUCC 6th Edition Data Element Name: P17. Ejection Element (Definition: Identifies if the occupant was completely or partially thrown from the interior of the motor vehicle as a result of this crash.)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash391	DRIVER INVOLVED INDIVIDUALS INFO	Ejection Path	Provide support for the entry and maintenance of a field to indicate the path through which an individual was ejected from the vehicle during a crash.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash392	NON-MOTORIST	Unit Number of Striking Vehicle	Provide support for the entry and maintenance of a field to identify the vehicle which struck the non-motorist during the crash.	Y	Refer to MMUCC 6th Edition Data Element Name: NM1. Vehicle Number of Motor Vehicle Striking Non-Motorist Element (Definition: Number assigned to identify the first motor vehicle that struck the non-motorist in the crash.)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash393	NON-MOTORIST	Action Prior to Crash	Provide support for the entry and maintenance of a field to identify the action of the non-motorist just prior to the crash.	Y	Refer to MMUCC 6th Edition Data Element Name: NM2. Non-Motorist Status Prior to Critical Event Element (Definition: The status of the non-motorist immediately prior to the crash.)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash394	NON-MOTORIST	Location Prior to Crash	Provide support for the entry and maintenance of a field to identify the location of the non-motorist just prior to the first harmful event of the crash.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash395	NON-MOTORIST	Non-Motorist Distraction Element	Provide support for the entry and maintenance of a field to identify this non-motorist's attention prior to the non-motorist's involvement in this crash.	Y	Refer to MMUCC 6th Edition Data Element Name: NM3. Non-Motorist Distraction Element (Definition: Identifies this non-motorist's attention prior to the non-motorist's involvement in this crash. This element reports on the presence of any distractions that may or may not have contributed to the crash. Distraction for a non-motorist occurs when a non-motorist's attention is diverted from the task of navigating in public to some other activity.)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash396	NON-MOTORIST	NM Contributing Action1	Provide support for the entry and maintenance of a field to identify the actions of the non-motorist at the time of the crash that may have contributed to the crash.	Y	Refer to MMUCC 6th Edition Data Element Name: NM4. Non-Motorist Contributing Circumstances Element (Definition: The actions or circumstances of the non-motorist at the time of the crash that may have contributed to the crash.)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash397	NON-MOTORIST	NM Contributing Action2	Provide support for the entry and maintenance of a field to identify the actions of the non-motorist at the time of the crash that may have contributed to the crash.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash398	NON-MOTORIST	NM Contributing Action - Narrative	Provide support for the entry and maintenance of a field to identify the actions of the non-motorist at the time of the crash that may have contributed to the crash.	Y	This data element has been defined based on the MMUCC 6th Edition requirement defined as "Other (explain in narrative)." Refer to MMUCC 6th Edition Data Element Name: NM4. Non-Motorist Contributing Circumstances Element (Definition: The actions or circumstances of the non-motorist at the time of the crash that may have contributed to the crash.)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash399	NON-MOTORIST	Location at Time of Crash	Provide support for the entry and maintenance of a field to identify the non-motorist's location with respect to the roadway at the time of the crash.	Y	Refer to MMUCC 6th Edition Data Element Name: NM7. Non-Motorist Specific Location Element (Definition: The location of the non-motorist with respect to the roadway at the time of the crash.)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash400	NON-MOTORIST	Non-Motorist at Intersection	Provide support for the entry and maintenance of a field to identify the location of the non-motorist with respect to an intersection at the time of the crash.	Y	Refer to MMUCC 6th Edition Data Element Name: NM5. Non-Motorist at Intersection Element (Definition: The location of the non-motorist with respect to an intersection at the time of the crash.)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash401	NON-MOTORIST	Non-Motorist in Crosswalk	Provide support for the entry and maintenance of a field to identify the location of the non-motorist with respect to a crosswalk at the time of the crash.	Y	Refer to MMUCC 6th Edition Data Element Name: NM6. Non-Motorist in Crosswalk Element (Definition: The location of the non-motorist with respect to a crosswalk at the time of the crash.)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash402	NON-MOTORIST	NM Safety Equipment 1-2	Provide support for the entry and maintenance of a field to identify safety equipment, if any, being utilized by the non-motorist at the time of the crash.	Y	Refer to MMUCC 6th Edition Data Element Name: NM8. Non-Motorist Safety Equipment Element (Definition: The safety equipment used by this non-motorist.)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash403	NON-MOTORIST	Non-Motorist Device Type Element	Provide support for the entry and maintenance of a field to identify the type of transport device and motorization of the device operated by the non-motorist.	Y	Refer to MMUCC 6th Edition Data Element Name: NM 9. Non-Motorist Device Type Element (Definition: The type of transport device and motorization of the device operated by the non-motorist.)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash404	NON-MOTORIST	NM Traffic Control Device 1-2	Provide support for the entry and maintenance of a field to indicate the type of traffic control device that was applicable to the non-motorist at the time of the crash.	Y	Refer to MMUCC 6th Edition Data Element Name: NM10. Non-Motorist Traffic Control Device Element (Definition: The traffic control device applicable to this non-motorist at the time of the crash.)	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash405	NON-MOTORIST	NM Condition at Time of Crash	Provide support for the entry and maintenance of a field to indicate the apparent condition of the non-motorist at the time of the crash.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash406	NON-MOTORIST	Alcohol Suspected	Provide support for the entry and maintenance of a field to indicate law enforcement suspicion that a non-motorist was under the influence of alcohol at the time of the crash.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		

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Req. #	Category	Sub-Category/ Field Name	Business (Functional) Requirement	MMUCC 516 Required?	MMUCC Reference Information	Priority H - Critical M - Moderate L - Low	Vendor Response	Customization Estimate if Applicable	Capability Planned for Future Release	Core Modules	Third Party Solutions	Comments/Notes
Crash407	NON-MOTORIST	Alcohol Test Given	Provide support for the entry and maintenance of a field to indicate whether a test was given to determine the presence of alcohol.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash408	NON-MOTORIST	Alcohol Test Type1	Provide support for the entry and maintenance of a field to indicate the type of test used to collect alcohol concentration.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash409	NON-MOTORIST	Alcohol Test Results	Provide support for the entry and maintenance of a field to indicate the blood alcohol concentration found when the suspected impaired driver was tested.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash410	NON-MOTORIST	Drug Use Suspected	Provide support for the entry and maintenance of a field to indicate law enforcement suspicion that the non-motorist was under the influence of drugs at the time of the crash.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash411	NON-MOTORIST	Drug Test Given	Provide support for the entry and maintenance of a field to indicate whether a test was given to determine the presence of drugs.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash412	NON-MOTORIST	Drug Test Type	Provide support for the entry and maintenance of a field to indicate the type of test used to detect drugs.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash413	NON-MOTORIST	Non-Motorist - Drug Test Results 1-4	Provide support for the entry and maintenance of a field to indicate the results of the test used to detect the presence of drugs.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash414	NON-MOTORIST	NM - Violation 1-4	Provide support for the entry and maintenance of a field to indicate any violations of the law that the reporting officer either suspects or knows were committed by the non-motorist. Does not necessarily indicate that a citation was issued for the violation(s).			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash415	NON-MOTORIST	Citation Charge1	Provide support for the entry and maintenance of a field to indicate any citations issued to the non-motorist as a result of the crash investigation.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash416	NON-MOTORIST	Citation Code1	Provide support for the entry and maintenance of a field to indicate the code reference for the law that was violated.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash417	NON-MOTORIST	Citation Number1	Provide support for the entry and maintenance of a field to indicate the number of citation used.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash418	NON-MOTORIST	Warning1	Provide support for the entry and maintenance of a field to indicate if a warning was issued instead of a citation.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash419	DMV-LICENSE	DMV-LICENSE	Provide the ability to provide the ability to scan a state-issued Driver License (barcode/magnetic stripe/MR2) to auto-populate all available license data fields.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash420	DMV-LICENSE	DMV-LICENSE	Provide the ability to allow the officer to override, correct, or manually update any auto-populated DMV-License information.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash421	DMV-LICENSE	DMV-LICENSE	Provide the ability to support adding and managing passenger information, including name, date of birth, seating position, injury status, and ID/Driver License scan (if available).			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash422	DMV-LICENSE	DMV-LICENSE	Provide the ability to maintain an audit log of all officer overrides or manual edits to DMV-License or passenger information.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash423	DMV-VEHICLE	DMV-LICENSE	Provide the ability to provide the ability to scan a vehicle registration document to auto-populate vehicle and owner information (VIN, plate, make/model, expiration, owner data).			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash424	DMV-VEHICLE	DMV-LICENSE	Provide the ability to allow the officer to override or manually update any auto-populated vehicle or owner information.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash425	DMV-VEHICLE	DMV-LICENSE	Provide the ability to validate VIN, plate number, and expiration formats and flag inconsistencies for officer review.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash426	DMV-VEHICLE	DMV-LICENSE	Provide the ability to display a side-by-side comparison of scanned data and officer-entered data to resolve discrepancies in case of review.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		
Crash427	DMV-VEHICLE	DMV-LICENSE	Provide the ability to support adding and maintaining an email address for drivers involved in the crash.			H	Out-of-the-Box with configuration required to meet			Enforcement Mobile Crash Reporting		

WVDOT Crash Citation System Requirements

Req. #	Category	Sub-Category	Business (Functional) Requirement	Priority	Vendor Response	Customization Estimate, if Applicable	Capability Planned for Future Release	Core Module(s)	Third Party Solution(s)	Comments/Notes
RFF1	Reports for Sale	Reports for Sale	The system shall support the generation of required reports that are optionally purchasable. Each agency can denote whether their crash reports are available for sale and at what price point (base report, charge per photo, charge per video, etc). When payment is necessary, the system shall direct the user to the State Treasurer's Office website to complete the transaction, likely via a token and will wait for the Treasurer's Office to return the token with a status of "funds collected" or "funds not collected" -- along with a reason code. The system shall not capture or store payment details, and reports shall only be released (for download) upon confirmation of successful payment from the Treasurer's Office.	H	Customization Required to Meet	Medium: Medium customization(s) requiring a total of 80 to 160 hours for specification, development, and unit testing				Included in cost of solution
RFF2	Reports for Sale	Reports for Sale	Provide the capability of defining reports that agencies might offer for sale	H	Customization Required to Meet	Medium: Medium customization(s) requiring a total of 80 to 160 hours for specification, development, and unit testing				Included in cost of solution
RFF3	Reports for Sale	Reports for Sale	Provide capability for each agency to opt in or out of selling reports (e.g., Y/N)	H	Out-of-the-Box with configuration required to meet					
RFF4	Reports for Sale	Reports for Sale	Provide capability for each agency to opt in or out of specific pre-defined reports	H	Out-of-the-Box with configuration required to meet					
RFF5	Reports for Sale	Reports for Sale	Provide capability for each agency to set the selling price for each sellable report, attachments, photo, or video (if available)	H	Out-of-the-Box with configuration required to meet					
RFF6	Reports for Sale	Reports for Sale	Provide the capability of selling any combination of <ul style="list-style-type: none"> Crash Reports Crash Reconstruction Other document types, such as attachments, pictures, videos, etc. For these types of add-ons, provide the ability to select single, multiple, or all. 	H	Out-of-the-Box with configuration required to meet					Crash reports can be sold by agencies per RFP specifications. Proposed solution does not support creation of Crash Reconstruction Reports but can interface with third party system downstream.
RFF7	Reports for Sale	Reports for Sale	Provide the capability of defining fields to be redacted on these reports by the agency selling the report, based on business rules established by the agency	H	Out-of-the-Box with configuration required to meet					
RFF8	Reports for Sale	Reports for Sale	Provide the ability for the agency to redact information on juveniles (minors)	H	Out-of-the-Box with configuration required to meet					
RFF9	Reports for Sale	Reports for Sale	Provide the capability to define business rules which determine whether a report is eligible to be sold online or not	H	Out-of-the-Box with configuration required to meet					
RFF10	Report Features and Functions	General	Provide an Information Exchange option, able to be printed and distributed both at the crash scene and from the admin console that complies with WV State Code §17C-4-7(b), utilizing the information entered into this report <i>Note: §17C-4-7(b) Within 24 hours of a motor vehicle crash, the investigating law-enforcement officer shall provide the owner, operator, and insurance information upon request for all the involved parties to each of the other involved parties, and to each party's respective insurance agents. This information shall be made available, at no cost, whether or not the accident report has been completed.</i>	H	Out-of-the-Box with configuration required to meet					
RFF11	Report Features and Functions	General	Provide the ability to create information exchange report(s) for drivers involved in a crash	H	Out-of-the-Box with configuration required to meet					
RFF12	Report Features and Functions	General	Provide the ability to create a Reconstruction Report for a crash	H	Does Not / CANNOT Meet Requirement					Proposed solution does not support creation of Crash Reconstruction Reports but can interface with third party system downstream.
RFF13	Report Features and Functions	General	Provide pre-defined reports that are automatically generated and distributed (pushed to the user, report portal, etc.) to support day-to-day business functions; provide the necessary tools to configure reports, and copy existing reports as the basis for additional reports.	H	Meets the requirement out-of-the-box					
RFF14	Report Features and Functions	General	Provide sufficient control reports and proactive monitoring to ensure the operational integrity of business operations (e.g. control totals, record counts, brought forward/carried forward totals, etc.)	M	Meets the requirement out-of-the-box					
RFF15	Report Features and Functions	General	Provide self-service reports and downloads that are either pre-defined and selected (pulled by the user) or created ad-hoc from a pre-populated user-friendly database structure using report tools commonly associated with data warehousing methodologies.	H	Meets the requirement out-of-the-box					
RFF16	Report Features and Functions	General	Provide interactive analysis capabilities that help decision makers use communication technologies, data, documents, knowledge, and analytical models to identify and solve problems.	M	Out-of-the-Box with configuration required to meet					
RFF17	Report Features and Functions	General	Support pre-built data structures and data transformations through upgrades with new versions of and patches to the operational application suite.	H	Meets the requirement out-of-the-box					
RFF18	Report Features and Functions	General	Provide a reporting and analysis toolset that does not require knowledge and training on the toolset's proprietary language or configuration for most users (i.e., non-power users).	M	Meets the requirement out-of-the-box					

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Req. #	Category	Sub-Category	Business (Functional) Requirement	Priority (H = High, M = Medium, L = Low)	Vendor Response	Customization Estimate, if Applicable	Capability Planned for Future Release	Core Module(s)	Third Party Solution(s)	Comments/Notes
RFF19	Report Features and Functions	General	Provide a solution architecture to have 24-hour, 7-day-a-week access (excluding defined maintenance windows) to the reporting functions.	M	Meets the requirement out-of-the-box					
RFF20	Report Features and Functions	General	Support read-only access to data via Open Database Connectivity (ODBC) with appropriate security.	H	Meets the requirement out-of-the-box					The Reporting platform has a RESTful API layer across all data elements that can be read in via ODBC
RFF21	Report Features and Functions	General	Support user access to predefined reports via the web without installation of client software, apps or any widgets 100% of the time, along with access to self-service reports and export/downloads via the web a minimum of 80% of the time.	H	Meets the requirement out-of-the-box					
RFF22	Report Features and Functions	General	Leverage the roles and security definitions setup of the system solution within the reporting and business function to minimize duplication of security administration functions.	H	Meets the requirement out-of-the-box					
RFF23	Report Features and Functions	General	Support utilization of the same system specifications (architectural landscape) that are required for the Crash and Citation Reporting operational platform for the reporting environment to the extent feasible.	M	Out-of-the-Box with configuration required to meet					Solution architecture is optimized to meet the different user roles across the proposed Tyler ITRACS solution.
RFF24	Report Features and Functions	Report Portal	Provide users with a user specific personalized report portal that allows access to only those reports that the user is authorized to see consistent with role-based security definitions.	H	Meets the requirement out-of-the-box					
RFF25	Report Features and Functions	Report Portal	Provide access to rows and/or columns within the report to be restricted based on the user's role (e.g. the user can only view data according to their defined security role, etc.).	M	Meets the requirement out-of-the-box					
RFF26	Report Features and Functions	Report Portal	Provide a list of the reports that have been distributed / are available to the user via the portal (i.e. the user has been granted authorization to view a report by the designated report publisher/owner).	M	Meets the requirement out-of-the-box					
RFF27	Report Features and Functions	Report Portal	List saved personalized reports and ad-hoc queries that the user has authority to either create or modify in the user's personal reports list.	H	Meets the requirement out-of-the-box					
RFF28	Report Features and Functions	Report Portal	Allow an authorized user to search the existing reports inventory and subscribe to reports after requesting and receiving permission from the report owner/publisher.	H	Out-of-the-Box with configuration required to meet					The Tyler Enterprise Data Platform and Enforcement Mobile Analytics (proposed reporting solutions) come with a very granular set of access, controls, and permissions. WV DOT Administrators will be able to effectively manage their users and their access to all datasets and reports within the proposed solution. Likewise, if a user has appropriate access they will be able to use a google-like search functionality to find what they need.
RFF29	Report Features and Functions	Report Portal	Allow for designated report publishers to un-publish reports to individual users or groups of users.	M	Meets the requirement out-of-the-box					
RFF30	Report Features and Functions	Report Portal	Support users sharing saved personalized reports and ad-hoc queries for use by another user aligned with defined user roles.	M	Meets the requirement out-of-the-box					
RFF31	Report Features and Functions	Report Portal	Allow for users to delete shared reports from their personal reports list without deleting the shared report from another user's personal reports list.	M	Meets the requirement out-of-the-box					Shared reports are, typically, managed at the administrator level and users can access, subscribe, and (with approved access) sign up for these reports. Users can also save these reports in their own personal view, they can create new reports, and they will not be able to delete a shared report. This is typically, again, done at a higher level within the system managed by the administrator.
RFF32	Report Features and Functions	Report Portal	Support a user refreshing (running) saved personal reports or ad-hoc queries from the portal with an option to run in the background and send a notification to the user upon completion.	M	Meets the requirement out-of-the-box					
RFF33	Report Features and Functions	Standard Report Features	Allow a user to execute reports and modify report query parameters on-line and allow a user to save modified report versions as personal versions without impacting the base query.	M	Meets the requirement out-of-the-box					
RFF34	Report Features and Functions	Standard Report Features	Support drill down from summary information to the supporting detail transactions and drill up from the detail transaction to the summary information where appropriate.	H	Meets the requirement out-of-the-box					
RFF35	Report Features and Functions	Standard Report Features	Provide the option, as part of drill down functionality, to print the expanded sections of the drill down results with the content of the original query results.	H	Meets the requirement out-of-the-box					
RFF36	Report Features and Functions	Standard Report Features	Link the report generator directly to the data dictionary to provide point and click data item selection and drag-and-drop formatting by the user.	H	Meets the requirement out-of-the-box					
RFF37	Report Features and Functions	Standard Report Features	Allow for a user to define or modify the sort order of reports.	H	Meets the requirement out-of-the-box					
RFF38	Report Features and Functions	Standard Report Features	Support searching for data, transactions or documents using a range of data values.	M	Meets the requirement out-of-the-box					
RFF39	Report Features and Functions	Standard Report Features	Support searching, filtering, and reordering of data within a results set.	M	Meets the requirement out-of-the-box					
RFF40	Report Features and Functions	Standard Report Features	Support free-form text searching that includes embedded, attached, or linked documents.	M	Does Not / CANNOT Meet Requirement					Tyler has the ability to attach documents to records created in Enforcement Mobile, and the record can be searched.

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RFF41	Report Features and Functions	Standard Report Features	Support free-form text searching that includes the specification of words that are in a given range of words.	M	Meets the requirement out-of-the-box					
RFF42	Report Features and Functions	Standard Report Features	Support free-form text searching that includes the specification of wildcards (such as * and ? in strings) as well as %LIKE% string searches that provide a broader support for searching string fields.	M	Meets the requirement out-of-the-box					
RFF43	Report Features and Functions	Standard Report Features	Allow for a user to save a personal copy for later execution of a pre-defined report with a set of specific selection criteria.	M	Out-of-the-Box with configuration required to meet					Users can bookmark reports with selection criteria on their personal report dashboard in Enforcement Mobile Analytics. They can create their own versions of any report in the EDP.
RFF44	Report Features and Functions	Standard Report Features	Support standard print capabilities such as those typically available in Windows-based products such as print preview, print a range of pages, print a number of copies, print to device, print to PDS, etc.	H	Meets the requirement out-of-the-box					
RFF45	Report Features and Functions	Standard Report Features	Allow for on-line reports to be run in the background and allow users to continue processing such that report results can then be accessed through the report portal with an online user notification provided when the report is generated.	M	Meets the requirement out-of-the-box					
RFF46	Report Features and Functions	Standard Report Features	Support scheduling a report to run automatically if certain conditions (business rules) are met, including event triggered, day and time of week triggered, etc.	M	Meets the requirement out-of-the-box					
RFF47	Report Features and Functions	Standard Report Features	Support export of query and report results as an external database, word processing format (.doc or .docx), text file (.txt), standard portable flat file formats (comma delimited, tab delimited, etc.) with option to choose delimiter, XML, or JSON formats.	M	Meets the requirement out-of-the-box					
RFF48	Report Features and Functions	Standard Report Features	Support report distribution based on events, process milestones, or predefined data thresholds or values, e.g., based on data values contained within the report (i.e., conditional operators >, <, =, etc.).	M	Meets the requirement out-of-the-box					
RFF49	Report Features and Functions	Standard Report Features	Support distributing reports by a variety of methods such as sending links to reports via email, web, or push to mobile devices.	M	Out-of-the-Box with configuration required to meet					
RFF50	Report Features and Functions	Standard Report Features	Support printing of reports on special forms.	M	Out-of-the-Box with configuration required to meet					
RFF51	Report Features and Functions	Standard Report Features	Support effective date selection and query including Boolean operations such as date ranges.	H	Meets the requirement out-of-the-box					
RFF52	Report Features and Functions	Standard Report Features	Support incorporating derived field values into reports resulting from formulas, functions, and mathematical calculations.	M	Meets the requirement out-of-the-box					
RFF53	Report Features and Functions	Standard Report Features	Allow an authorized user to create and specify report templates.	H	Out-of-the-Box with configuration required to meet					
RFF54	Report Features and Functions	Standard Report Features	Provide wizards to guide the users through report building steps.	M	Out-of-the-Box with configuration required to meet					
RFF55	Report Features and Functions	Standard Report Features	Support graphical report layout tools and drag-and-drop features to assist users in formatting reports and inquiries.	M	Meets the requirement out-of-the-box					
RFF56	Report Features and Functions	Standard Report Features	Support the use of unstructured data in query results (e.g., Microsoft® Word®, Microsoft® Excel®, scanned images, and other documents attached to transactions).	M	Does Not / CANNOT Meet Requirement					Enforcement Mobile supports the attachment of additional audio/diagrams/photos/etc. that are associated with the citation or crash report, however our reporting tools do not support the query of unstructured data.
RFF57	Report Features and Functions	Standard Report Features	Support the creation of various charts from the reporting tool.	M	Meets the requirement out-of-the-box					
RFF58	Report Features and Functions	Standard Report Features	Support linking from reporting tool to Microsoft Office or Google Workspace graphic, spreadsheet and presentation applications.	M	Meets the requirement out-of-the-box					
RFF59	Report Features and Functions	Standard Report Features	Provide the ability to generate reports and notifications for Failure to Appear (FTA) and Failure to Pay (FTP) events to designated agencies.	H	Out-of-the-Box with configuration required to meet					
RFF60	Management Reporting	Ad-hoc Query	Provide a robust ad-hoc query facility.	H	Meets the requirement out-of-the-box					
RFF61	Management Reporting	Ad-hoc Query	Support a user building ad-hoc queries to report on any fields in the Crash and Citation applications for which they are authorized using one or more or a combination of different criteria; provide online access to a data dictionary showing data element and table to assist.	H	Out-of-the-Box with configuration required to meet					
RFF62	Management Reporting	Ad-hoc Query	Ensure that a user cannot access information through an ad-hoc query if they are not authorized to view this information in the operational Crash and Citation application.	M	Out-of-the-Box with configuration required to meet					
RFF63	Management Reporting	Ad-hoc Query	Allow for a user to save an ad-hoc query for later execution without impacting any base query that was used as a start point.	M	Meets the requirement out-of-the-box					
RFF64	Management Reporting	Ad-hoc Query	Display a user's saved ad-hoc queries by the user-defined descriptive name on the user's report portal.	H	Meets the requirement out-of-the-box					
RFF65	Management Reporting	Ad-hoc Query	Allow for a user to authorize one or more additional users to have access to a saved ad-hoc query through the report portal.	M	Out-of-the-Box with configuration required to meet					
RFF66	Management Reporting	Ad-hoc Query	Display any ad-hoc queries authorized by one user for use by a second user on the second user's report portal.	M	Meets the requirement out-of-the-box					

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Req. #	Category	Sub-Category	Business (Functional) Requirement	Priority (High, Medium, Low)	Vendor Response	Customization Estimate, if Applicable	Capability Planned for Future Release	Core Module(s)	Third Party Solution(s)	Comments/Notes
RFF67	Management Reporting	Ad-hoc Query	Support natural language (NLI), i.e., English-like entry of ad hoc queries (such as using an IBM AI toolset to write sophisticated SQL (Structured Query Language) statements to create reports from the database.	M	Meets the requirement out-of-the-box					
RFF68	Reporting Architecture & Performance	Report Administration	Provide a solution architected to centrally manage the reporting tool set to ensure that any updates are distributed to users and that all users are accessing the same version of the reporting software.	H	Meets the requirement out-of-the-box					
RFF69	Reporting Architecture & Performance	Report Administration	Ensure the reporting solution is architected so system performance is not impacted when a large report or query is being run.	H	Meets the requirement out-of-the-box					
RFF70	Reporting Architecture & Performance	Report Administration	Support scheduling, viewing and modifying the start time for batch printing including any dependencies on certain business conditions or events.	M	Meets the requirement out-of-the-box					
RFF71	Reporting Architecture & Performance	Report Administration	Allow the system administrator or other authorized user to define limits on the execution time for a report or query and/or the number of records/rows being retrieved.	H	Customization Required to Meet	Medium: Medium customization(s) requiring a total of 80 to 160 hours for specification, development, and unit testing				Included in cost of solution
RFF72	Reporting Architecture & Performance	Report Administration	Automatically cancel a query or report job if it fails to meet system administrator defined criteria (e.g., time limits, infinite loops, excessive pages, etc).	M	Meets the requirement out-of-the-box					
RFF73	Reporting Architecture & Performance	Report Administration	Allow the system administrator or other authorized user to terminate any query or report that significantly reduces system performance.	M	Meets the requirement out-of-the-box					
RFF74	Reporting Architecture & Performance	Report Administration	Allow the system administrator or other authorized user to override parameters for an individual query or report.	M	Meets the requirement out-of-the-box					
RFF75	Reporting Architecture & Performance	Report Administration	Support auditing of exports of report data and modifications to report definitions.	M	Meets the requirement out-of-the-box					
RFF76	Reporting Architecture & Performance	Report Administration	Support configuration of report definitions to suppress information based on a user's role and permissions.	M	Out-of-the-Box with configuration required to meet					
RFF77	Reporting Architecture & Performance	Report Administration	Report on user production statistics by user ID, time of day, length of job, etc. to determine who is viewing a report, what reports are being used and resources consumed by business unit/user.	H	Customization Required to Meet	Medium: Medium customization(s) requiring a total of 80 to 160 hours for specification, development, and unit testing				Included in cost of solution

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Req. #	Category	Sub Category/ Field Name	Business (Functional) Requirement	Priority High Medium Low	Vendor Response	Customization Estimate, if Applicable	Capability Planned for Future Release	Core Module(s)	Third Party Solution(s)	Comments/Notes
CIT1	Violator Information Management	Violator Information Management	Provide PDF417 barcode scanning for all 50 states and automatically fill in field values from a driver's license.	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile eCitation		
CIT1	Violator Information Management	Violator Information Management	Provide support for the entry and maintenance of a field to indicate if violator full name is complete.	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile eCitation		
CIT2	Violator Information Management	Violator Information Management	Provide support for the entry and maintenance of a field to indicate if address is complete.	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile eCitation		
CIT3	Violator Information Management	Violator Information Management	Provide support for the entry and maintenance of a field to indicate if date of birth, gender, height, weight, and eye color are complete.	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile eCitation		
CIT4	Violator Information Management	Violator Information Management	Provide support for the entry and maintenance of a field to indicate if drivers license information is complete.	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile eCitation		
CIT5	Violator Information Management	Violator Information Management	Provide support for the entry and maintenance of a field to indicate if GDL or permit type is captured.	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile eCitation		
CIT5	Violator Information Management	Violator Information Management	Provide PDF417 barcode scanning for all 50 states and automatically fill in field values from a vehicle registration or license plate.	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile eCitation		
CIT6	Vehicle Information Management	Vehicle Information Management	Provide support for the entry and maintenance of a field to indicate if vehicle license plate information is complete.	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile eCitation		
CIT7	Vehicle Information Management	Vehicle Information Management	Provide support for the entry and maintenance of a field to indicate if VIN, make, model, color, and body style are complete.	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile eCitation		
CIT8	Vehicle Information Management	Vehicle Information Management	Provide support for the entry and maintenance of a field to indicate if vehicle owner/lessee information is recorded.	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile eCitation		
CIT9	Vehicle Information Management	Vehicle Information Management	Provide support for the entry and maintenance of a field to indicate if CMV details are recorded when applicable.	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile eCitation		
CIT10	Violation Details	Violation Details	Provide support for the entry and maintenance of a field to indicate if citation number is within an assigned block.	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile eCitation		
CIT11	Violation Details	Violation Details	Provide support for the entry and maintenance of a field to indicate if one violation is linked per charge.	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile eCitation		
CIT12	Violation Details	Violation Details	Provide support for the entry and maintenance of a field to indicate if violation description is linked to WV Code or municipal ordinance.	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile eCitation		
CIT13	Violation Details	Violation Details	Provide support for the entry and maintenance of a field to indicate if speeding details are recorded.	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile eCitation		
CIT14	Violation Details	Violation Details	Provide support for the entry and maintenance of a field to indicate if location details are recorded.	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile eCitation		
CIT15	Violation Details	Violation Details	Provide support for the entry and maintenance of a field to indicate if GPS coordinates are captured.	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile eCitation		
CIT16	Violation Details	Violation Details	Provide support for the entry and maintenance of a field to indicate if officer details are recorded.	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile eCitation		
CIT17	Violation Details	Violation Details	Provide support for the entry and maintenance of a field to indicate if type of roadway is recorded.	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile eCitation		

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Req. #	Category	Sub_Category/ Field Name	Business (Functional) Requirement	Priority H = High M = Medium L = Low	Vendor Response	Customization Estimate, if Applicable	Capability Planned for Future Release	Core Module(s)	Third Party Solution(s)	Comments/Notes
CIT18	Violation Details	Violation Details	Provide support for the entry and maintenance of a field to indicate if citation includes mandatory in-person plea violations.	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile eCitation		
CIT19	Violation Details	Violation Details	Provide support for the entry and maintenance of a field to indicate if citation includes an Out of Service Order violation.	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile eCitation		
CIT20	Violation Details	Violation Details	Provide support for the entry and maintenance of a field to indicate if citation includes Non-Resident Violators Compact applicability.	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile eCitation		
CIT21	Violation Details	Violation Details	Once a citation has been printed/issued, it should be locked down to eliminate the ability for it to be changed after the fact. Any additional changes will need to be handled through the disposition process.	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile eCitation		
CIT23	Violation Details	Violation Details	Provide the ability to print a citation in different formats (i.e. page size to accommodate mobile printers, full page printers, and print to PDF.		Out-of-the-Box with configuration required to meet			Enforcement Mobile eCitation		
CIT24	Violation Details	Violation Details	Provide the ability to link citation to a crash report		Out-of-the-Box with configuration required to meet			Enforcement Mobile eCitation		
CIT25	Violation Details	Violation Details	Provide the ability for an agency reference to incident by free typing text box (i.e. agency reporting to associate this to a non-crash report incident number)		Out-of-the-Box with configuration required to meet			Enforcement Mobile eCitation		
CIT37	Court & Disposition Information	Court & Disposition Information	Provide support for the entry and maintenance of a field to indicate if court name, address, and phone are captured.	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile eCitation		
CIT38	Court & Disposition Information	Court & Disposition Information	Provide support for the entry and maintenance of a field to indicate if court appearance date is provided.	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile eCitation		
CIT39	Court & Disposition Information	Court & Disposition Information	Provide support for the entry and maintenance of a field to indicate if violator acknowledgment signature is recorded.	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile eCitation		
CIT40	Court & Disposition Information	Court & Disposition Information	Provide support for the entry and maintenance of a field to indicate if plea choice is recorded.	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile eCitation		
CIT41	Court & Disposition Information	Court & Disposition Information	Provide support for the entry and maintenance of a field to indicate if court disposition is entered for each charge.	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile eCitation		
CIT42	Court & Disposition Information	Court & Disposition Information	Provide support for the entry and maintenance of a field to indicate if conviction and reduced charge codes are entered.	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile eCitation		
CIT43	Court & Disposition Information	Court & Disposition Information	Provide support for the entry and maintenance of a field to indicate if license action and fine amount are recorded.	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile eCitation		
CIT44	Court & Disposition Information	Court & Disposition Information	Provide support for the entry and maintenance of a field to indicate if case numbers are linked to the citation.	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile eCitation		
CIT45	Court & Disposition Information	Court & Disposition Information	Provide support for the entry and maintenance of a field to indicate if a citation was voided by an officer.	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile eCitation		
CIT46	Court & Disposition Information	Court & Disposition Information	Provide support for the entry and maintenance of a field to indicate if a citation was forwarded to WV DMV or WV Highway Safety Program or WV DNR.	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile eCitation		
CIT47	Citation Location	Geo-location	Provide the ability to provide the officer the ability to geo-locate the citation using GPS at the point of issuance.	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile eCitation		
CIT48	Citation Location	Geo-location	Provide the ability to automatically map the captured location to roadway, route, milepoint, and jurisdiction attributes when LRS services are available.	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile eCitation		

WV DOT Crash Citation System Requirements

Req. #	Category	Sub-Category/ Field Name	Business (Functional) Requirement	Priority (H = High, M = Medium, L = Low)	Vendor Response	Customization Estimate, if Applicable	Capability Planned for Future Release	Core Module(s)	Third Party Solution(s)	Comments/Notes
CIT49	Citation Location	Geo-location	Provide the ability to allow the officer to override and manually adjust the location to match the correct Linear Referencing System (LRS) values (e.g. route ID, milepoint, direction, offset).	H	Out-of-the-Box with configuration required to meet			Enforcement Mobile eCitation		
CIT50	Citation-DNR	DNR	Provide the ability to capture and maintain hunting/fishing license number and license type on Citations		Out-of-the-Box with configuration required to meet			Enforcement Mobile eCitation		
CIT51	Citation-DNR	DNR	Provide the ability to support the scanning of hunting/fishing licenses to auto-populate license fields (and allow override if necessary)		Out-of-the-Box with configuration required to meet			Enforcement Mobile eCitation		
CIT52	Citation-DNR	DNR	Provide the ability to allow boat/watercraft information to be entered in place of in addition to vehicle information.		Out-of-the-Box with configuration required to meet			Enforcement Mobile eCitation		
CIT53	Citation-DNR	DNR	Provide the ability to capture and maintain a field to record state-mandated wildlife replacement costs, with manual entry of automated business rules.		Out-of-the-Box with configuration required to meet			Enforcement Mobile eCitation		
CIT54	Citation-DNR	DNR	Provide the ability to capture and maintain fields to document confiscated property (such as firearms, equipment, wildlife, etc.)		Out-of-the-Box with configuration required to meet			Enforcement Mobile eCitation		
CIT55	Citation-DNR	DNR	Provide the ability to capture and maintain officer notes for supplemental comments for court or agency review.		Out-of-the-Box with configuration required to meet			Enforcement Mobile eCitation		
CIT56	Citation-DNR	DNR	Provide the ability to support notification routing to DNR, similar to the existing WDMV and Highway Safety Notifications.		Out-of-the-Box with configuration required to meet			Enforcement Mobile eCitation		

WV DOT Crash Citation System Requirements

Req. #	Category	Sub-Category	Business (Functional) Requirement	Priority (H = High, M = Medium, L = Low)	Vendor Response	Customization Estimate, if Applicable	Capability Planned for Future Release	Core Module(s)	Third Party Solution(s)	Comments/Notes
AA1	Application Architecture	General	Provide a solution that provides law enforcement with a tool for easily entering crash and citation information that is robust and effective -- filling in values based on the user profile (i.e. default values are automatically filled based on the identity of the end user), but support the ability for the user to override these default values as required. Anytime a default value has been overridden by the end-user, flag the record as such, indicating that the default was overridden or not accepted.	H	Meets the requirement out-of-the-box					
AA2	Application Architecture	General	Provide a solution that implements logical edit checks across all relevant data fields to ensure data fidelity and data integrity. These edit checks must validate that values entered in one field are consistent with values entered in other related fields. Additionally, the system shall dynamically control field visibility, displaying only those fields that are logically related to prior user inputs. The system solution must: <ul style="list-style-type: none"> Enforce cross-field validation rules that prevent contradictory, incomplete, or illogical data combinations. Automatically reveal or hide dependent fields based on earlier selections or entries; Ensure that only contextually valid values are available for selection in any dependent field; Support complex multi-field logic (e.g. hierarchical, nested, or multi-variable conditions); Provide real-time feedback to the end user when an entry violates a logical rule; and Allow administrative configuration of validation rules without requiring code changes. Examples (for clarity, not limiting): If the user selects a vehicle type of "Motorcycle" or "ATV," the system must automatically display the "Helmet Use" field and restrict its values to those appropriate for motorcycle/ATV operation. If the vehicle type is not one of these, the "Helmet Use" field must remain hidden or disabled.	H	Meets the requirement out-of-the-box					
AA3	Application Architecture	Archiving	Provide reporting and analysis tools which guide the crash and citation data administrator in determining which data is appropriate and available (meaning there are no open related transactions that would inhibit good archive practices) to archive.	H	Meets the requirement out-of-the-box					Data can be archived according to the State's requirements.
AA4	Application Architecture	Archiving	Store asset related data for an indefinite period (e.g. some or all asset related data may be retained for an indefinite period, while other data may be able to be archived after certain user-defined periods based on record retention policies).	H	Meets the requirement out-of-the-box					
AA5	Application Architecture	Archiving	Allow an authorized user to mark records for deletion. Deleted records and attachments will be archived in the database with an indicator of "deleted".	H	Meets the requirement out-of-the-box					
AA6	Application Architecture	Archiving	Allow an authorized user to unmark records which have been flagged in the database for deletion (maintaining referential integrity).	H	Meets the requirement out-of-the-box					
AA7	Application Architecture	Archiving	Support purge, archive, and restore of inactive records based on user-defined criteria and track history.	H	Meets the requirement out-of-the-box					
AA8	Application Architecture	Archiving	Allow system administrator or other authorized user to define archiving criteria for different types of data.	H	Meets the requirement out-of-the-box					
AA9	Application Architecture	Archiving	Support restoring of archived data by various parameters including the date range of the archiving process and other user-defined business rules.	H	Meets the requirement out-of-the-box					
AA10	Application Architecture	Audit Trail	Maintain an audit trail of all user actions that update and access the database including at a minimum user ID, action performed, and time/date stamp; this includes any update via online, batch, web services or self-service functions.	H	Meets the requirement out-of-the-box					
AA11	Application Architecture	Audit Trail	Support monitoring the audit trail logs via an auto alert based on user-defined business rules.	H	Meets the requirement out-of-the-box					
AA12	Application Architecture	Audit Trail	Support notifications via email to designated users when certain auditable events occur.	H	Meets the requirement out-of-the-box					
AA13	Application Architecture	Audit Trail	Provide a timestamp and user ID of the system user when a record was last changed or inserted.	H	Meets the requirement out-of-the-box					
AA14	Application Architecture	Audit Trail	Store the program ID of the program that inserted, deleted or last changed the record, along with the old and new value of the data changed. That is, provide full traceability for all inserts, changes, and deletes of content.	H	Meets the requirement out-of-the-box					
AA15	Application Architecture	Audit Trail	Manage the retention and archiving of audit trails based on user-defined business rules.	H	Meets the requirement out-of-the-box					
AA16	Application Architecture	Audit Trail	Maintain an audit trail of report execution including report requested, user requesting report and time/date stamp.	M	Does Not / CANNOT Meet Requirement					Reports are kept up to date automatically, therefore report access/distribution is not tracked.
AA17	Application Architecture	Document Management	Provide basic document management capabilities within the Crash and Citation applications (that is, the ability to store and link files to a master or transaction record, etc.).	H	Meets the requirement out-of-the-box					
AA18	Application Architecture	Document Management	Support configuring specific workflows or transactions to access different document locations based on the location of the document, either stored in the Crash and Citation applications or stored in the Department's enterprise document management systems / shared directory.	H	Out-of-the-box with configuration required to meet					
AA19	Application Architecture	Document Management	Support purging or archiving a document or attachment without purging or archiving the related transaction. Record all changes to a transaction in a separate log (e.g. creation, revision, update, deletion).	H	Meets the requirement out-of-the-box					

WVDOT Crash Citation System Requirements

Req. #	Category	Sub-Category	Business (Functional) Requirement	Priority	Vendor Response	Customization Estimate, if Applicable	Capability Planned for Future Release	Core Module(s)	Third Party Solution(s)	Comments/Notes
AA20	Application Architecture	Document Management	Provide an indicator within the user interface part of the system that there is one or more relevant documents associated with the displayed record that are stored (either directly in the Crash and Citation system or in the Department's document management system/shared directory); the user must be able to click on the indicator to retrieve and display the image/soft copy of the document.	M	Meets the requirement out-of-the-box					
AA21	Application Architecture	Functions and Features	Support the importing/exporting of Google Sheets/Docs, Microsoft Office, and Microsoft Office365 objects as well as industry standard formats (.doc, .docx, .pdf, .txt, .csv, .xml, .json).	H	Meets the requirement out-of-the-box					
AA22	Application Architecture	Functions and Features	Support the generation of notifications (email messages/Texts) by the system based on various system/business events using standard e-mail protocols including but not limited to IMAP, MAPI, POP3, SMTP, etc.	H	Out-of-the-Box with configuration required to meet					
AA23	Application Architecture	Functions and Features	Support wildcard or partial searches.	H	Meets the requirement out-of-the-box					
AA24	Application Architecture	Functions and Features	Support default of the value of a field based on the value of another field according to user-defined business rules.	H	Out-of-the-Box with configuration required to meet					
AA25	Application Architecture	Functions and Features	Provide user-defined data fields within each Crash and Citation function (estimated 10% of total defined fields in each major system function).	H	Out-of-the-Box with configuration required to meet					
AA26	Application Architecture	Functions and Features	Track and store effective date changes throughout the systems and across modules.	H	Out-of-the-Box with configuration required to meet					
AA27	Application Architecture	Functions and Features	Utilize effective and expiration dates to version reference tables and data.	H	Out-of-the-Box with configuration required to meet					
AA28	Application Architecture	Functions and Features	Support mass changes to defined groups of transactions or data with appropriate audit trails.	H	Out-of-the-Box with configuration required to meet					
AA29	Application Architecture	Functions and Features	Support back out (rollback) of previously entered batches and individual transactions.	H	Meets the requirement out-of-the-box					Support Team can roll back changes at the Agency's request.
AA30	Application Architecture	Functions and Features	Provide a sequential unique Identifier for a batch.	H	Out-of-the-Box with configuration required to meet					
AA31	Application Architecture	Functions and Features	Support use of bar code, QR code or RFID scanners with the proposed software solution to support data input for electronic identification of medical data (see MMUCC requirements for more detail). Allow the use of hand-held readers/printers to support all system transactions.	H	Meets the requirement out-of-the-box					
AA32	Application Architecture	Functions and Features	Support PDF471 scanning of driver's license		Meets the requirement out-of-the-box					
AA33	Application Architecture	Functions and Features	Support PDF471 scanning of vehicle registration and/or license plate		Meets the requirement out-of-the-box					
AA34	Application Architecture	Functions and Features	Support the use of the "print screen" function and export to standard formats (.xls, .doc, .pdf, google sheet/doc, .csv, .pdf, .xml, .json, etc.) from any screen.	H	Meets the requirement out-of-the-box					
AA35	Application Architecture	Functions and Features	Provide multi-language support with spell check and dictionary support, along with support for a user-defined dictionary of terms.	H	Out-of-the-Box with configuration required to meet					
AA36	Application Architecture	Functions and Features	Support set-up of user-defined and standard document, form and letter templates at either the Department-wide or department/business unit level for use throughout the Crash and Citation solutions with names, titles, labels, pre-defined backgrounds, etc.	M	Out-of-the-Box with configuration required to meet					Tyler will work with the State to identify the details of this requirement if selected.
AA37	Application Architecture	Functions and Features	Support copying of a system item to create a new system item of the same type as a productivity tool to reduce manual data entry requirements.	M	Meets the requirement out-of-the-box					
AA38	Application Architecture	Functions and Features	Allow the system administrator or other authorized users to broadcast messages to all or a specific subset of system users.	M	Out-of-the-Box with configuration required to meet					
AA39	Application Architecture	Functions and Features	Support scheduling of broadcast messages with a start and end date/time.	M	Out-of-the-Box with configuration required to meet					
AA40	Application Architecture	Functions and Features	Support use of electronic signatures to initiate or approve a business event within the proposed software solution through authentication of the user to the system by entry of valid user credentials at the time the user signs on to the system. Record the application of electronic signatures in the record transaction log.	L	Out-of-the-Box with configuration required to meet					

WVDOT Crash Citation System Requirements

Req. #	Category	Sub-Category	Business (Functional) Requirement	Priority H = High M = Medium L = Low	Vendor Response	Customization Estimate, if Applicable	Capability Planned for Future Release	Core Module(s)	Third Party Solution(s)	Comments/Notes
AA41	Application Architecture	Functions and Features	Integrate with Department specific standard email systems (at a minimum, Gmail and Microsoft Outlook).	L	Out-of-the-Box with configuration required to meet					
AA42	Application Architecture	General	Share all related business information across functional areas and organizations (subject to application security and user-defined business rules).	H	Out-of-the-Box with configuration required to meet					
AA43	Application Architecture	General	Provide an integrated data management structure that is utilized across the proposed software solution to minimize system processing or administration required on data integration points.	H	Out-of-the-Box with configuration required to meet					
AA44	Application Architecture	General	Provide user-controlled definition and maintenance of system values and business rules in tables without requiring programmer intervention.	H	Out-of-the-Box with configuration required to meet					
AA45	Application Architecture	General	Support update of all related modules and tables with a single entry (e.g., a change to a project attribute or project status information is made only once but takes effect throughout the system).	H	Meets the requirement out-of-the-box					
AA46	Application Architecture	General	Allow the application administrator or other authorized users to manage and maintain system tables and data field values.	H	Meets the requirement out-of-the-box					
AA47	Application Architecture	General	Support the addition of user-defined fields that updates the supporting tables/queries as well as the screens.	H	Out-of-the-Box with configuration required to meet					
AA48	Application Architecture	General	Support persistence in terms of field labels such that a screen label defined in one place would be referred to the same way everywhere.	H	Out-of-the-Box with configuration required to meet					
AA49	Application Architecture	General	Perform transactions in real-time in the sense that online access will display the most current element value (e.g., if a user changes the value of a data element on one screen, the newly changed data value will be shown when the user moves to another screen with that element).	H	Meets the requirement out-of-the-box					
AA50	Application Architecture	General	Edit all system input according to user-defined business rules so that the rules are appropriately applied, and data is validated at the time the data is being entered into the system either on-line or through a batch transaction.	H	Out-of-the-Box with configuration required to meet					
AA51	Application Architecture	General	Support multiple concurrent application sessions for each user; each concurrent session must utilize the same security profile.	H	Out-of-the-Box with configuration required to meet					
AA52	Application Architecture	General	Maintain security logs and audit trails distinctly for each concurrent user session.	H	Out-of-the-Box with configuration required to meet					
AA53	Application Architecture	General	Provide a metadata editor to modify/relabel terms, screen and field captions across the application, by department or line of business and/or by screen by role; user configured terms shall reflect on reports; retain original terms allowing revert; re-apply modified captions after upgrades/releases.	M	Out-of-the-Box with configuration required to meet					Enforcement Mobile's support team will make metadata changes for the agency.
AA54	Application Architecture	General	Provide the application administrator or other authorized user with screen layout configuration capabilities including movement of fields around a screen and/or across tabs, removal of fields, addition of user-defined fields, reorder or consolidation of tabs, buttons to enable prints and selection of related reports, links to other business objects (e.g., project records, contract records, project contacts, etc.).	M						
AA55	Application Architecture	General	Comply with the Rehabilitation Act of 1973 and Americans with Disabilities Act (ADA) Section 508 standards for accessibility for all system functions; comply with the latest version of the Web Content Accessibility Guidelines (WCAG) and ensure the Crash and Citation applications can work with industry leading assistive technology products such as screen readers. All screens/windows/forms accessible to the public must be WCAG 2.1 Level AA compliant.	H	Meets the requirement out-of-the-box					
AA56	Application Architecture	General	Support encryption or masking of any fields with access restricted to authorized users by department/business unit and role and responsibility.	L	Out-of-the-Box with configuration required to meet					
AA57	Application Architecture	General	Support indicating at the field level user classes or individual users who are authorized to view masked or encrypted fields.	L	Out-of-the-Box with configuration required to meet					
AA58	Application Architecture	General	Provide support for field-level "Tool Tips" feature.	H	Out-of-the-Box with configuration required to meet					
AA59	Application Architecture	Help	Provide a centrally stored and maintained system wide help function.	H	Customization Required to Meet					The EDP contains system wide help, however field level help on the citation and crash entry screens is limited. The screens are intuitively designed and help has not been an issue for end users across 1800+ agencies.
AA60	Application Architecture	Help	Provide context-sensitive, field-level on-line help features for all screen elements, screen errors and error codes, along with the ability for an authorized user to make revisions to these on-line help features and content.	H	Customization Required to Meet					The EDP contains system wide help, however field level help on the citation and crash entry screens is limited. The screens are intuitively designed and help has not been an issue for end users across 1800+ agencies.

WVDOT Crash Citation System Requirements

Req. #	Category	Sub-Category	Business (Functional) Requirement	Priority	Vendor Response	Customization Estimate, if Applicable	Capability Planned for Future Release	Core Module(s)	Third Party Solution(s)	Comments/Notes
AA61	Application Architecture	Help	Identify processing or navigation path for a screen.	H	Customization Required to Meet					The data entry screens are easy to navigate because our system has been designed by the agencies themselves. Every aspect of the solution is configured to the agency's exact specifications. Our goal is to make the process as efficient, effective, and safe for the officers as possible.
AA62	Application Architecture	Help	Provide user documentation that is comprehensive, clear and easy to use (e.g. user documentation must provide quick answers to questions regarding the navigation of application screens, execution of pre-defined reports, and use of the ad-hoc query capability); it must also contain clear and thorough descriptions of all screen and batch processing functions, screen data, programs, system reports, and any processing parameters.	H	Meets the requirement out-of-the-box					
AA63	Application Architecture	Help	Provide comprehensive search functions for on-line documentation, including search strings with wild cards, and linked content by topic area.	H	Meets the requirement out-of-the-box					
AA64	Application Architecture	Help	Provide table-driven error message handling that can be modified by authorized users.	M	Out-of-the-Box with configuration required to meet					
AA65	Application Architecture	Help	Ensure any customized help files carry forward automatically during upgrades.	M	Meets the requirement out-of-the-box					
AA66	Application Architecture	Security	Integrate with Active Directory, the State of West Virginia specific identification and authentication systems and processes to allow for access to the Crash and Citation through a single user sign-on to the Department network.	H	Customization Required to Meet					Included in cost of solution.
AA67	Application Architecture	Security	Comply with the WVDOT and any applicable State of West Virginia, United States Department of Transportation (USDOT), National Highway Transportation Safety Administration (NHTSA), Model Minimum Uniform Crash Criteria (MMUCC), and Homeland Security Administration security policies. Conform to the requirements in the State of West Virginia Office of Technology Information Security Policy at http://library.commission.wv.gov/Library/Documents/SecurityPolicy1017.pdf	H	Out-of-the-Box with configuration required to meet					
AA68	Application Architecture	Security	Comply with the encryption requirements in Information Exchange Package Documentation (IEPD) standards.	H	Meets the requirement out-of-the-box					
AA69	Application Architecture	Security	Comply with ISO/IEC 15408: Common Criteria for Information Technology Security Evaluation.	H	Meets the requirement out-of-the-box					
AA70	Application Architecture	Security	Support secure hypertext transfer protocol (HTTPS).	H	Meets the requirement out-of-the-box					
AA71	Application Architecture	Security	Comply with FEDRAMP requirements.	H	Meets the requirement out-of-the-box					
AA72	Application Architecture	Security	Support role-based security and privileges and access rights by position and department/business unit.	H	Out-of-the-Box with configuration required to meet					
AA73	Application Architecture	Security	Support granular management and administrator control over transactions, forms access, field updates, row locking, interfacing events, data queries and other types of authorizations using role-based security.	H	Out-of-the-Box with configuration required to meet					
AA74	Application Architecture	Security	Provide for a security administrator function/role that allows for separate controls for view, add, change, inactivate, update, approve, and query access privileges.	H	Meets the requirement out-of-the-box					
AA75	Application Architecture	Security	Support secure communications authentication, authorization, confidentiality and data integrity (e.g. HTTPS, SSL) for internet-based transactions and/or support for FIPS 140-2 data encryption for system transactions.	H	Meets the requirement out-of-the-box					
AA76	Application Architecture	Security	Support role-based security for automated workflow components including establishing access and update privileges for work lists, page access related to the selection of a word list item, and definition of which users are included workgroups. This should include roles for crash, citation, and DNR-based roles and permissions.	H	Out-of-the-Box with configuration required to meet					
AA77	Application Architecture	Security	Allow the system administrator or other authorized user to define users to the system, including the following information about each user: unique user identification; user first name; user last name; department/business unit; user email address and effective date of user access to the system.	H	Meets the requirement out-of-the-box					
AA78	Application Architecture	Security	Allow the system administrator or other authorized user to define user access groups based on job responsibilities to ensure separation of duties; the system administrator must enter the user group name, a user group code and a description of the role and capabilities of the user group.	H	Meets the requirement out-of-the-box					
AA79	Application Architecture	Security	Allow the system administrator or other authorized user to grant user groups access to each system function and to establish the type of access to be allowed (add, change, inquire, retrieve, delete) and establish an effective start and end date for this access.	H	Meets the requirement out-of-the-box					
AA80	Application Architecture	Security	Allow the system administrator or other authorized user to assign users to one or more user groups including an effective date and optional end date for inclusion in each user group.	H	Meets the requirement out-of-the-box					
AA81	Application Architecture	Security	Log incidents of security violations within the system capturing user identification, system function for which unauthorized access was attempted and date and time of security violation.	H	Meets the requirement out-of-the-box					
AA82	Application Architecture	Security	Provide an online function for review of the logs of invalid password attempts or security violations by the system administrator or other authorized users.	H	Meets the requirement out-of-the-box					
AA83	Application Architecture	Security	Apply the system security roles and privileges to report and ad-hoc query results such that users cannot access data through reports and queries for which they are not authorized in the operational system.	H	Meets the requirement out-of-the-box					

WV DOT Crash Citation System Requirements

Req. #	Category	Sub-Category	Business (Functional) Requirement	Priority (H = High, M = Medium, L = Low)	Vendor Response	Customization Estimate, if Applicable	Capability Planned for Future Release	Core Module(s)	Third Party Solution(s)	Comments/Notes
AA84	Application Architecture	Security	Support access to the Crash and Citation solutions by authorized third party business partners through virtual private network and/or Internet self-service portal capabilities, subject to the Department security procedures for external access.	H	Out-of-the-Box with configuration required to meet					
AA85	Application Architecture	Security	Allow users to choose from multiple user groups/roles as sign-on if the user is assigned more than one role.	H	Out-of-the-Box with configuration required to meet					
AA86	Application Architecture	Security	Allow system administrator or other authorized user to define the allowable period for user inactivity while logged on.	H	Out-of-the-Box with configuration required to meet					
AA87	Application Architecture	Security	Disconnect or log out a user session when it exceeds the allowable period of inactivity as established by the system administrator and configured in the system.	H	Meets the requirement out-of-the-box					
AA88	Application Architecture	Security	Warn users that they will be disconnected before automatically logging off users.	H	Meets the requirement out-of-the-box					
AA89	Application Architecture	Security	Support trusted, secure access to external links (for repair manuals, parts lists, etc).	M	Out-of-the-Box with configuration required to meet					
AA90	Application Architecture	Security	Provide that if two distinct security roles are needed to perform a business function and both roles are held by the same user, the user must log on separately under each security role to perform the full business transaction.	M	Does Not / CANNOT Meet Requirement					Within Enforcement Mobile, based on best practices, overall data quality, and security concerns, user roles are associated with a unique email address. One email address cannot have more than one user assigned to it.
AA91	Application Architecture	Security	Allow authorized Department managers to use a workflow within Crash and Citation (including DNR citations) to request employee access privileges to specific system functions and obtain management approval based on enterprise and business unit rules for this access; based on the Department management approvals, request will then be forwarded to the system administrator or other authorized user for review and potential action.	M	Out-of-the-Box with configuration required to meet					
AA92	Application Architecture	Security	Allow a system administrator or other authorized user to define or reset a user's password by entering a password or selecting a system generated unique, random temporary password; password must be capable of being emailed upon a change and through self-service based on a user successfully answering challenge questions. Note in the system log that a change to a user password occurred on a specific date/time stamp.	M	Out-of-the-Box with configuration required to meet					
AA93	Application Architecture	Security	Allow external users to reset their own password using standard password reset protocols to validate the identity of the user. Internal Department users shall change their password through the Department's identity management system.	M	Out-of-the-Box with configuration required to meet					
AA94	Application Architecture	Security	Support the use of security challenge questions for authenticating a user, as well as allow for users to provide and store unique answers for a subset of these security challenge questions to be subsequently used if a user forgets a password.	M	Meets the requirement out-of-the-box					
AA95	Application Architecture	Security	Support digital certificates.	L	Meets the requirement out-of-the-box					
AA96	Application Architecture	Security	Support public key infrastructure (PKI).	L	Meets the requirement out-of-the-box					
AA97	Application Architecture	Security	Personally Identifiable Information (PII) should be viewable or masked based on user role/definable by the System Administrator).	H	Out-of-the-Box with configuration required to meet					
AA98	Application Architecture	Security	Support integrating with identity management systems utilized by local agencies; further, the applications must also be able to support local users where there are no SSO capabilities to conform to.	H	Customization Required to Meet	Medium; Medium customization(s) requiring a total of 80 to 160 hours for reconciliation/development				State-level integration is included in the proposal. Individual agency level will be an additional charge.
AA99	Application Architecture	Security	Support the ability for any given user to have one or more assigned roles.	H	Out-of-the-Box with configuration required to meet					
AA100	Application Architecture	Security	Support the ability for any authorized user to delegate their role responsibility to another user for a time-limited period (e.g. a supervisor can delegate their role while out of the office for a period of time).	H	Out-of-the-Box with configuration required to meet					The Agency System Administrator can delegate and/or remove access roles as needed.
AA101	Application Architecture	Upgradeability	Provide the ability to maintain or retain user configurations in the Crash and Citation applications through upgrade or release of new versions of the software.	M	Meets the requirement out-of-the-box					
AA102	Application Architecture	User Documentation	Enable users to incorporate user-defined documentation into system documentation (e.g. user procedures, business rules, etc.) which is accessible from the Crash and Citation applications.	H	Customization Required to Meet					Detailed requirements can be discussed.
AA103	Application Architecture	User Documentation	Support maintaining version control of user-defined documentation.	L	Does Not / CANNOT Meet Requirement					Enforcement Mobile can store documentation via links but does not support version control.
AA104	Application Architecture	User Interface	Utilize a consistent user interface across the core components of the Crash and Citation solution (excluding third-party software components) including user-definable hot keys; screen naming functions; navigation patterns; consistent use of controls; online help and menus (as defined by the user's security profile).	H	Out-of-the-Box with configuration required to meet					
AA105	Application Architecture	User Interface	Support both manual entry and contextually validated drop-down lists of all valid values for each validated field.	H	Meets the requirement out-of-the-box					
AA106	Application Architecture	User Interface	Allow a user to navigate between multiple, related input screens without losing information input on the original (or header) screen until all information is committed to the database.	H	Meets the requirement out-of-the-box					
AA107	Application Architecture	User Interface	Allow a user to cancel a transaction and/or exit any document or screen without saving changes.	H	Meets the requirement out-of-the-box					

WV DOT Crash Citation System Requirements

Req. #	Category	Sub Category	Business (Functional) Requirement	Priority (H = High M = Medium L = Low)	Vendor Response	Customization Estimate, if Applicable	Capability Planned for Future Release	Core Module(s)	Third Party Solution(s)	Comments/Notes
AA108	Application Architecture	User Interface	Provide a visual identification (e.g. highlighting) of all required fields for entry on any screen.	H	Meets the requirement out-of-the-box					
AA109	Application Architecture	User Interface	Support search and filter capability on user screens containing columns of data.	H	Meets the requirement out-of-the-box					
AA110	Application Architecture	User Interface	When a crash report falls under FMCSA requirements, the solution should dynamically hide/show FMCSA-related fields to the end user for data entry.	H	Out-of-the-Box with configuration required to meet					
AA111	Application Architecture	Workflow	Provide tools for modifying preconfigured workflows or developing new workflows.	H	Meets the requirement out-of-the-box					
AA112	Application Architecture	Workflow	Support the establishment of user-defined rules-based workflows for any system event or transaction.	H	Out-of-the-Box with configuration required to meet					
AA113	Application Architecture	Workflow	Support bi-directional electronic routing of documents for approval or other tasks through workflow.	H	Out-of-the-Box with configuration required to meet					
AA114	Application Architecture	Workflow	Support initiation of workflows from both online real-time and batch driven/initiated events based on user-defined business rules.	H	Out-of-the-Box with configuration required to meet					
AA115	Application Architecture	Workflow	Allow for reversal of any approvals and return the workflow transaction to the originating user and any other users who had previously approved the transaction if one or more reviewers disapproves a transaction.	H	Out-of-the-Box with configuration required to meet					
AA116	Application Architecture	Workflow	Support copying, modifying and extending preconfigured workflows to meet specific Department business requirements.	H	Out-of-the-Box with configuration required to meet					
AA117	Application Architecture	Workflow	Support multiple levels of approvals for transactions based on profile security and other user-defined criteria.	H	Out-of-the-Box with configuration required to meet					
AA118	Application Architecture	Workflow	Allow a user to enter descriptive information in a note field or to upload and attach a file to content items within the workflow and store these notes with user ID and date/time stamp.	H	Out-of-the-Box with configuration required to meet					
AA119	Application Architecture	Workflow	Ensure a transaction is not finalized until all required approval workflows are complete.	H	Out-of-the-Box with configuration required to meet					
AA120	Application Architecture	Workflow	Allow a workflow to be designed to support either simultaneous actions or require consecutive actions, as defined by an authorized user.	H	Out-of-the-Box with configuration required to meet					
AA121	Application Architecture	Workflow	Provide a dashboard which displays the status of workflows including workflows pending for a user-defined period of time.	H	Out-of-the-Box with configuration required to meet					
AA122	Application Architecture	Workflow	Allow for a supervisor to temporarily route transactions for workload balancing, absences, etc.	H	Out-of-the-Box with configuration required to meet					
AA123	Application Architecture	Workflow	Track workflow approvals and rejections.	H	Out-of-the-Box with configuration required to meet					
AA124	Application Architecture	Workflow	Support various user-defined transaction statuses, including approved, rejected, pending, under consideration, etc.	H	Out-of-the-Box with configuration required to meet					
AA125	Application Architecture	Workflow	Support electronic signatures for approvals and rejections of workflows based on a user authenticating themselves to the system.	L	Out-of-the-Box with configuration required to meet					

WV DOT Crash Citation System Requirements

Req. #	Category	Sub-Category	Business (Functional) Requirement	Priority (High, Medium, Low)	Vendor Response	Customization Estimate if Applicable	Capability Planned for Future Release	Core Module(s)	Third Party Solution(s)	Comments/Notes
TA1	Technical Architecture	Batch Error Handling	Allow an authorized user to edit a transaction in error and resubmit it.	H	Out-of-the-Box with configuration required to meet					
TA2	Technical Architecture	Business Continuity	Provide an architecture which supports fail-over to a parallel load balanced environment on a real time basis.	H	Meets the requirement out-of-the-box					Hosted by AWS
TA3	Technical Architecture	Business Continuity	Provide a system design which is architected to ensure that normal system operations are restored within four hours of a catastrophic disruption of a production system component 99% of the time.	H	Meets the requirement out-of-the-box					See SLA for uptime guarantees.
TA4	Technical Architecture	Business Continuity	Support performing full backups, incremental backups and recovery capabilities for data and application components. Back-ups shall not require maintenance windows; backups shall be able to function in the background of a production SOA or clustered environment and not impact system availability.	H	Meets the requirement out-of-the-box					
TA5	Technical Architecture	Business Continuity	Provide the means to execute disaster recovery operations for test and live conditions.	H	Meets the requirement out-of-the-box					
TA6	Technical Architecture	Custom Development	Allow for identification/reporting of new user-defined fields.	H	Meets the requirement out-of-the-box					
TA7	Technical Architecture	Custom Development	Allow for identification/reporting of new user-defined objects.	H	Meets the requirement out-of-the-box					
TA8	Technical Architecture	Data Integration	Provide supported Application Program Interface (API) data definitions and file structures for all key reference sets to support batch loading of data. For example, the ability to load full crash record data or citation data via an input file, such as csv, xml, etc.	H	Meets the requirement out-of-the-box					Enforcement Mobile will match any transport method required by the interface. For uploading batch data into the EDP, offers a wide range of options to connect to data/metadata sources.
TA9	Technical Architecture	Data Integration	Support data encryption where appropriate based on user-defined business rules following Advanced Encryption Standards (AES) for data both in transit and at rest in all file structures.	H	Meets the requirement out-of-the-box					All data transferred between the devices in the field and the server are performed over a TLS 1.2 connection via webservices. This includes downloads, uploads, software distribution and error reporting. All communications are compressed and then encrypted via AES. Data at rest is encrypted with FIPS 140-2 and AES 256.
TA10	Technical Architecture	Data Integration	Encrypt all data with personally identifiable information (PII) or Department confidential information in transit and at rest in all file structures.	H	Meets the requirement out-of-the-box					
TA11	Technical Architecture	Data Integration	Support executing interfaces with other systems on a pre-defined schedule, event, or on the request of an authorized user.	H	Out-of-the-Box with configuration required to meet					
TA12	Technical Architecture	Data Integration	Support modern architectural interface data exchange protocols with other WV systems in real-time (e.g., HTTPS, OAuth2/token-based authorization, web services, RESTful, SOAP, Msg Broker, etc.)	H	Meets the requirement out-of-the-box					
TA13	Technical Architecture	Data Integration	Place records not passing validation into a suspense status within the Crash and Citation system solution.	H	Out-of-the-Box with configuration required to meet					
TA14	Technical Architecture	Data Integration	Provide the ability to correct suspended records within the Crash and Citation system.	H	Meets the requirement out-of-the-box					
TA15	Technical Architecture	Data Integration	Support EDI including ASC X12.	L	Customization Required to Meet					
TA16	Technical Architecture	Database	Support implementation of the proposed solution on the most current production release and one major release back of any major database product, such as Oracle® or Microsoft SQL Server®, along with the ability to maintain this state over time.	H	Meets the requirement out-of-the-box					
TA17	Technical Architecture	Database	Maintain referential integrity of data through either database referential integrity declarations or application code.	H	Meets the requirement out-of-the-box					
TA18	Technical Architecture	Database	Utilize high availability and advanced security features of the database to the extent appropriate.	H	Meets the requirement out-of-the-box					
TA19	Technical Architecture	Database	Support data replication, load balancing, and synchronization across multiple physical or virtual servers.	H	Meets the requirement out-of-the-box					
TA20	Technical Architecture	Database	Exploit DBMS database features and database and application design to reduce contention between updates by online users and those of concurrently running batch processes.	H	Meets the requirement out-of-the-box					
TA21	Technical Architecture	Database	Ensure that on-line search queries will not be delayed by waiting for locks to be released.	H	Meets the requirement out-of-the-box					
TA22	Technical Architecture	Database	Ensure in a two-user scenario when both users retrieve data and attempt to update data one after another, to avoid loss of updates and/or to avoid overwriting of each other's data the system must notify the second user as the data is being updated by the first user (provide selection of "first in wins", last, etc).	H	Customization Required to Meet					
TA23	Technical Architecture	Database	Ensure that in a two-transaction read/update cycle, the user will always update ONLY what was being read avoiding the so-called "update collision" or "deadly embrace".	H	Meets the requirement out-of-the-box					
TA24	Technical Architecture	Database	Support automatic "clean up" of partial database updates after suspended network sessions or after other failures.	H	Meets the requirement out-of-the-box					
TA25	Technical Architecture	Database	Provide database monitoring tools and capabilities within the proposed solution for the recommended database platform to enable administration and performance tuning of the database environment.	H	Does Not / CANNOT Meet Requirement					Tyler's support teams monitor database performance internally, but this is not exposed to customers.

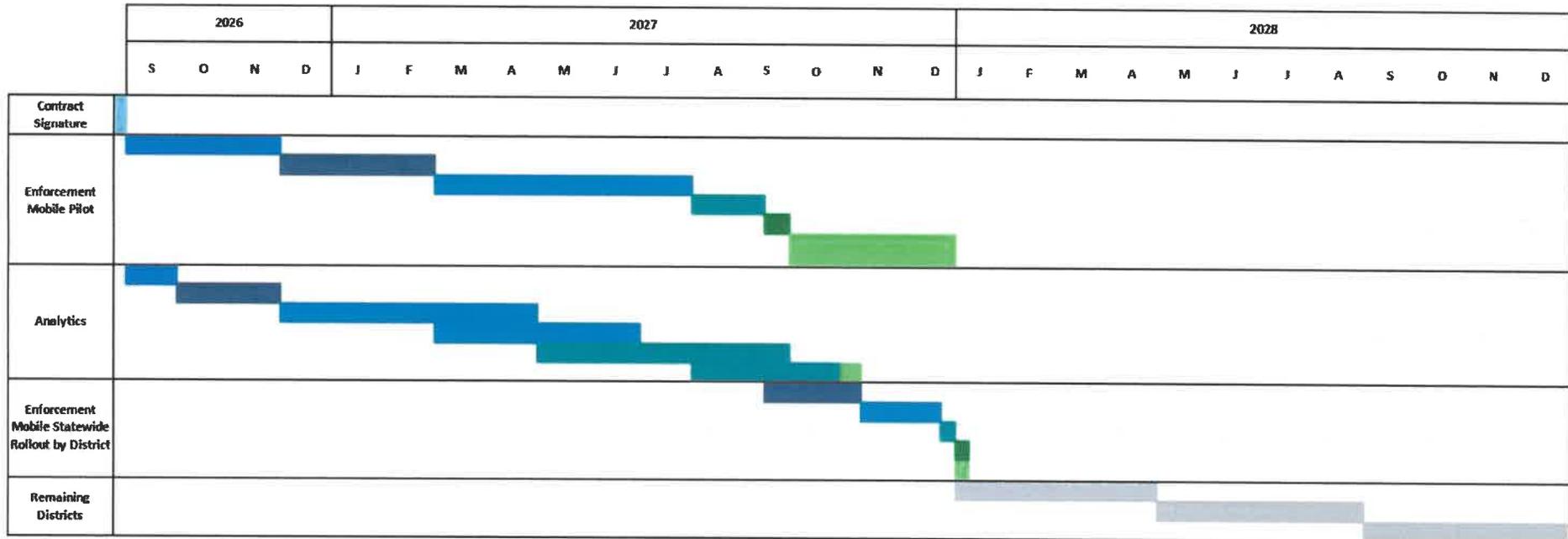
WVDOT Crash Citation System Requirements

Req. #	Category	Sub Category	Business (Functional) Requirement	Priority	Vendor Response	Customization Estimate, if Applicable	Capability Planned for Future Release	Core Module(s)	Third Party Solution(s)	Comments/Notes
TA26	Technical Architecture	Database	Support record locking at the row level.	H	Customization Required to Meet					
TA27	Technical Architecture	Database	Support field-level locking.	M	Customization Required to Meet					
TA28	Technical Architecture	Database	Support configuration of data attributes by the system administrator.	H	Customization Required to Meet					
TA29	Technical Architecture	Database	Provide access for/to structured query language (SQL) capabilities for database queries.	H	Meets the requirement out-of-the-box					
TA30	Technical Architecture	Enterprise Application Integration	Provide communication services that guarantee message delivery and handle queuing and encryption for various types of communication (e.g. publish and subscribe, request/reply, etc.).	H	Customization Required to Meet					
TA31	Technical Architecture	Enterprise Application Integration	Provide message queue monitor and management operations to address queue backlogs and problems.	H	Customization Required to Meet					
TA32	Technical Architecture	Enterprise Application Integration	Provide configurable data-transformation services to handle data validation, calculations, lookups, padding, scrambling, truncation, etc.	H	Meets the requirement out-of-the-box					
TA33	Technical Architecture	Enterprise Application Integration	Provide business process flow services to group and link data flows to automate the steps in a business transaction.	H	Meets the requirement out-of-the-box					
TA34	Technical Architecture	Enterprise Application Integration	Support Universal Description, Discovery and Integration (UDDI) extensible mark-up language.	H	Customization Required to Meet					
TA35	Technical Architecture	Enterprise Application Integration	Support Web Services Description Language (WSDL).	H	Meets the requirement out-of-the-box					
TA36	Technical Architecture	Enterprise Application Integration	Support web services using Simple Object Access Protocol (SOAP).	H	Meets the requirement out-of-the-box					
TA37	Technical Architecture	ETL Tools	Provide data integration and data management tools with a range of extract, transform and load (ETL) capabilities.	H	Meets the requirement out-of-the-box					
TA38	Technical Architecture	ETL Tools	Support integrating the proposed solution with third-party ETL tools to perform required ETL functions.	H	Out-of-the-Box with configuration required to meet					
TA39	Technical Architecture	ETL Tools	Validate and handle exceptions during transformation.	H	Meets the requirement out-of-the-box					
TA40	Technical Architecture	ETL Tools	Verify and maintain referential integrity as part of any transformation process.	H	Meets the requirement out-of-the-box					
TA41	Technical Architecture	ETL Tools	Support mapping data from multiple source systems into multiple target source systems.	H	Customization Required to Meet					
TA42	Technical Architecture	ETL Tools	Support incremental loads; allow for taking advantage of pipelined and partitioned parallelism to meet acceptable timeframes.	M	Meets the requirement out-of-the-box					
TA43	Technical Architecture	General	Provide a non-proprietary solution architecture with an expandable configuration and horizontal and vertical scalability.	H	Meets the requirement out-of-the-box					
TA44	Technical Architecture	General	Provide a service-oriented architecture (SOA) design/capability which is platform and protocol independent and complies with OASIS (Advancing Open Standards for the Information Society) standards such as WS-Security, WS-Reliability, etc. and other open standards such as XML, SOAP, WSDL, and UDDI.	H	Meets the requirement out-of-the-box					
TA45	Technical Architecture	General	Separate database tier from application tier.	H	Meets the requirement out-of-the-box					
TA46	Technical Architecture	General	Provide for separation of some or all the web server (presentation) tier from the application server tier.	H	Meets the requirement out-of-the-box					
TA47	Technical Architecture	General	Support virtualization for all tiers.	H	Meets the requirement out-of-the-box					
TA48	Technical Architecture	General	Support use of XML standards for communications (data exchange) to external parties.	H	Meets the requirement out-of-the-box					
TA49	Technical Architecture	General	Provide a solution that supports offline entry of data independent of the ability to communicate with the backend database (i.e., a solution that works regardless of whether the application is connected). Notes: • Input of crash data should continue independent of a network connection and supports "catching up" or synchronizing the entered data once a connection has been re-established. • During the period of non-connect, all relevant data entry functions need to be available; however, non-essential functions like reports, queries, etc., can be omitted. • For issuing or printing of a citation, the citation should be able to be printed locally regardless of the connection state.	H	Meets the requirement out-of-the-box					
TA50	Technical Architecture	General	Deliver content via the current and most recent supported versions of popular browsers (i.e., Microsoft Edge, Mozilla Firefox, Chrome, Safari, etc.)	H	Meets the requirement out-of-the-box					
TA51	Technical Architecture	General	Deliver content via browser without Active X controls or plug-in support (Java Runtime Environment, Adobe Flash, etc.).	H	Meets the requirement out-of-the-box					

WV DOT Crash Citation System Requirements

Req. #	Category	Sub-Category	Business (Functional) Requirement	Priority (High, Medium, Low)	Vendor Response	Customization Estimate, if Applicable	Capability Planned for Future Release	Core Module(s)	Third Party Solution(s)	Comments/Notes
TA52	Technical Architecture	General	The system shall provide support for integration with printers and other peripheral equipment commonly used in law enforcement operations (e.g., mobile ticket printers, in-vehicle peripherals). • The system shall maintain backward compatibility with equipment currently deployed in the field (e.g., Zebra printers) and shall be adaptable to the specific equipment standards, procurement policies, and operational needs of various agencies. • The system shall also be designed to accommodate future peripheral technologies or other equipment types without requiring significant re-engineering. • The solution should be capable of full and partial page (i.e., adjustable) printing options in the field based on type of printer available in the field.	H	Out-of-the-Box with configuration required to meet					
TA53	Technical Architecture	General	The system shall allow configuration of agency-specific fields/forms for DNR Workflows (e.g., off-road crash fields, replacement cost tables, etc.)	H	Out-of-the-Box with configuration required to meet					
TA54	Technical Architecture	Job Scheduling and Processing	Provide a central enterprise job scheduler with the proposed solution that can schedule jobs across platforms and across multiple servers within a platform.	H	Out-of-the-Box with configuration required to meet					Enforcement Mobile uses a built in job scheduler for interfaces. This scheduler would be used for citation/crash data uploads to the EDP.
TA55	Technical Architecture	Job Scheduling and Processing	Integrate with a third-party scheduler to provide job scheduling functionality for the proposed solution.	H	Customization Required to Meet					Not needed
TA56	Technical Architecture	Job Scheduling and Processing	Allow scheduling of report and query jobs.	H	Out-of-the-Box with configuration required to meet					
TA57	Technical Architecture	Performance	Ensure that batch processing does not adversely impact on-line responsiveness or availability.	H	Meets the requirement out-of-the-box					
TA58	Technical Architecture	Performance	Provide a solution which is architected to support access to data for pre-defined reports, ad-hoc queries and business intelligence without impacting online transaction performance.	H	Meets the requirement out-of-the-box					
TA59	Technical Architecture	Performance	Support utilization of industry leading third party performance monitoring tools for real-time monitoring by administrators of response time, system use and capacity, concurrent users, and system errors.	H	Meets the requirement out-of-the-box					
TA60	Technical Architecture	Performance	Allow user-initiated reports and queries to be limited by elapsed time and the number of records retrieved.	H						
TA61	Technical Architecture	Performance	Allow limits to be defined for other types of query functions such as table joins, multiple sorts, etc.	M						
TA62	Technical Architecture	Supportability	Allow at a minimum for configuration across multiple environments including production, test/train, development / sand box.	H	Meets the requirement out-of-the-box					
TA63	Technical Architecture	System Tools	Provide report design and generation tools within the application suite.	H	Meets the requirement out-of-the-box					
TA64	Technical Architecture	System Tools	Provide tools for system upgrade administration within the application suite.	H	Meets the requirement out-of-the-box					Upgrades for eCitation and Crash Reporting are pushed out to the devices upon sync.
TA65	Technical Architecture	System Tools	Provide tools for system monitoring within the application suite.	H	Meets the requirement out-of-the-box					
TA66	Technical Architecture	System Tools	Provide configuration management tools within the application suite.	H	Does Not / CANNOT Meet Requirement					The Support team will work with the agency to enact configuration changes.
TA67	Technical Architecture	System Tools	Provide end-user interface design tools within the application suite. This should include the ability for an authorized user to be able to add/delete/change values in drop-down menus and add new forms.	L	Out-of-the-Box with configuration required to meet					
TA68	Technical Architecture	Data Integrity	Utilize a phone validation service to validate all phone number data entry fields.	H	Customization Required to Meet					Telephone number format is validated upon data entry. If the State would like to include a phone number validation service, this would be at an additional cost.
TA69	Technical Architecture	Data Integrity	Utilize a VIN validation service to validate VIN number data entry fields.	H	Meets the requirement out-of-the-box					

Attachment 2: Sample Project Work Plan



Tyler has provided this sample project plan based on information provided in the agency's RFP and an anticipated contract signature date of 9/1/2026 to generate the timeframes. Be advised that any deviation from the schedule outlined in the RFP will affect the project plan. This plan is an estimate and in no way a guarantee made by Tyler.

Attachment 3: Resumes

IAN MCQUINN

General Manager, Tyler WV



WORK HISTORY

General Manager, Tyler West Virginia | TYLER TECHNOLOGIES | 2013-Present

- Utilize creative approaches and develop new partnerships to deliver high-impact, transformational services to West Virginia residents
- Led the delivery of more than 450 state interactive websites and applications
- Provided executive briefings to state leaders to maintain accountability
- Assist implementation and operational efforts in other Tyler DSD (formerly NIC) states

Executive Dir., DMV Services | TYLER TECHNOLOGIES | 2023-Present

- Developed strategic vision for DMV solutions across Tyler Technologies
- Acted as American Association of Motor Vehicles (AAMVA) lead point of contact
- Consulted on digital titling & ELT implementations in multiple states
- Led DMV-related strategic partnerships

Dir. Of Marketing & Portal Ops | NIC WEST VIRGINIA | 2011-2013

- Successfully managed complex and high profile eGovernment projects
- Developed and implemented marketing plans and strategies to drive service adoption
- Established leadership role and mutually respectful relationship with team
- Developed and strengthened key partner relationships at high levels

RELEVANT PROJECT EXPERIENCE

PROJECT NAME	PROJECT TYPE	PROJECT ROLE	ASSIGNMENT DURATION
West Virginia Digital Titling/Vehicle System Modernization	SaaS Implementation	DMV Executive Director / Consultant	3 Years (Entirety)
West Virginia Citizen Services Digital Transformation	SaaS Implementation/ Custom Software	General Manager / Business Analyst / Project Manager	19 Years (Ongoing)
West Virginia Office of Medical Cannabis License Management System	SaaS Implementation	General Manager / Project Manager	1 Year (Entirety)

EDUCATIONAL BACKGROUND

Marshall University | MBA – Business Administration & Management

TECHNICAL SKILLS / CERTIFICATIONS

Strategic Partnerships, Industry Expertise, Executive Account Management

JUSTIN BRUCE

Director of Client Services, Tyler Technologies



WORK HISTORY

Director of Client Services | TYLER TECHNOLOGIES | 2025-Present

- Achieved record-low 3% churn rate while managing \$25M+ portfolio for state and local government agencies.
- Directed Professional Services team maintaining \$30M+ recurring revenue across multiple large-scale government implementations.
- Provided strategic consultation to 40+ government agencies including State of Kansas, State of Texas, and State of California on data transparency, analysis, and performance management initiatives.
- Successfully designed and implemented standard operating procedures for Client Success and Project Management departments that have been deployed across Tyler's government client base.
- Led professional services delivery outperforming budget forecasts by 15%+ while maintaining exceptional client satisfaction scores.
- Proven track record in reducing churn, driving product adoption, and managing complex multi-stakeholder government technology implementations.

Director of Professional Services | TYLER TECHNOLOGIES | 2021-2025

- Set overall vision and strategic plan for Account Management organization, focusing on driving product adoption, leading a positive customer experience, and driving growth through gross renewals and net retention improvements.
- Drove customer outcomes, product adoption, and customer experience.
- Influenced future lifetime value through higher product adoption, customer satisfaction and overall health scores.

Director of Client Services – East Region | TYLER TECHNOLOGIES | 2018-2021

- Served government partners by providing thought leadership, insight, and best practices/methodologies on their journey to becoming data-driven and more efficient.

Adjunct Professor/Data Analytics Instructor | UNIVERSITY OF NEVADA, LAS VEGAS | 2021-2022

- Delivered impactful instruction on data analytics and transparency, equipping students with the technical expertise and critical thinking skills required to excel in data-driven environments.
- Designed and taught courses focused on data analytics, visualization, and transparency, ensuring alignment with academic standards and industry best practices.
- Developed comprehensive curricula emphasizing hands-on learning, including real-world case studies, projects, and interactive discussions.
- Facilitated partnerships with industry leaders to provide students with exposure to emerging trends and practical challenges in data analytics.

RELEVANT PROJECT EXPERIENCE

PROJECT NAME	PROJECT TYPE	PROJECT ROLE	ASSIGNMENT DURATION
Administrative Office of Illinois Courts (AOIC)	Statewide SaaS Implementation, Justice Supervision Data	Director of Project Management	2022 – Current (On-going Statewide Project)
State of Nevada Department of Transportation (NDOT)	Statewide SaaS Implementation, Traffic Safety Data	Director of Project Management	2023 – Current (On-going Statewide Project)
State of Texas Office of Court Administration (OCA)	Statewide SaaS Implementation, Justice Case Management Data	Director of Project Management	2024 – Current (On-Going Statewide Project)

EDUCATIONAL BACKGROUND

Western Governors University | MBA in Organizational Leadership
 University of Northern Alabama | MBA in Management and Operations
 Jackson State University | BBA; PMP Certified; Six Sigma Champion Certified

TECHNICAL SKILLS / CERTIFICATION

PMP Certified; Six Sigma Champion Certified

HANNAH DEEDS

Senior Product Manager, Tyler Technologies



WORK HISTORY

Senior Product Manager, Data & Insights | TYLER TECHNOLOGIES | 2023-Present

- Own strategy and roadmap for a suite of analytics and open data products used by 250+ public sector clients, with a focus on public safety
- Manage backlog, prioritize features, and run agile sprint ceremonies for an engineering team, ensuring consistent delivery of high-quality releases
- Conduct ongoing user research to inform product vision, validate concepts, and improve usability
- Partner cross-functionally with engineering, UX, sales, implementation, and support teams to design, deliver, and operationalize product enhancements

Product Manager, Data & Insights | TYLER TECHNOLOGIES | 2021-Present

- Led end-to-end development and launch of a predictive analytics tool that leverages machine learning models to more accurately forecast revenues and plan yearly budgets
- Onboarded and mentored five newly hired product managers, reducing ramp-up times and establishing standard team processes and best practices

Senior Product Analyst, Product Research | LIBERTY MUTUAL INSURANCE | 2020-2021

- Led app design and development for Liberty Mutual's usage-based insurance products (Safeco RightTrack, Liberty Mutual RightTrack, and Liberty Mutual ByMile), impacting 500K+ policyholders
- Prioritized product backlog and managed app releases, ensuring timely delivery of new features and consistently maintaining 4+ star app ratings for both iOS and Android
- Coordinated between external partners and internal teams to resolve dependencies and deliver seamless app integrations

Product Analyst, Product Technology Solutions | LIBERTY MUTUAL INSURANCE | 2017-2020

- Led the implementation of a mobile pay-how-you-drive app (Safeco RightTrack) to replace in-vehicle devices, resulting in \$5M of annual expense savings
- Built Power BI dashboards to provide senior leaders with insight into sales and customer experience KPIs, enabling faster and more confident decision-making

EDUCATIONAL BACKGROUND

University of California, Davis | BS – Mathematics and Statistics

TECHNICAL SKILLS / CERTIFICATIONS

- Product management: Roadmapping, stakeholder management, cross-team collaboration, agile development practices, Jira, Confluence, Coda
- Data analysis and visualization: Advanced Excel, SQL, SAS, Power BI, data visualization and storytelling, root cause analysis
- UX research & design: Figma, Pendo, crafting useful personas, user journey mapping, accessibility, conducting quantitative & qualitative research
- AI: Technical fluency with AI/Machine Learning models, prototyping with VO and Figma Make

ANDREW DEMING

Senior Solutions Engineer, Tyler Technologies



WORK HISTORY

Senior Solutions Engineer, Data & Insights | TYLER TECHNOLOGIES | 2021-Present

- Partner with Sales to execute go-to-market strategies, leading SaaS solution engagements that expanded Tyler's footprint across city, county, and state agencies.
- Sold Enterprise level contracts up to \$600k ARR to various departments within cities, counties, and states.
- Own the technical discovery, proof-of-concept design, and solution demos for diverse public sector stakeholders, including CIOs, CDOs, and IT Directors.
- Lead RFX responses by providing expert insights that address client business, technical, and security requirements.
- Collaborate with Product teams to convert AI advancements into actionable sales enablement materials and strategies.
- Senior Support Specialist/Support Team Lead | TYLER TECHNOLOGIES | 2016-2020
- Developed cross-functional processes to enhance content development and issue responsiveness.
- Leveraged deep product knowledge to address complex issues with the largest and most impactful customers.
- Lead efforts to be more data-driven across the company, utilizing various APIs to build and centralize datasets for use across disciplines.

Service Operations Engineer | MICROSOFT | 2007-2015

- Managed all aspects of an online advertising reporting tool, including development, delivery, and support.
- Delivered over 1000 automated and ad-hoc reports monthly with a 99% SLA rate.
- Oversaw migration of CS tools and systems from Microsoft to Facebook as project manager.

EDUCATIONAL BACKGROUND

Whitman College | BA – Mathematics and Physics

TECHNICAL SKILLS / CERTIFICATIONS / LANGUAGES

- AWS Certified Cloud Practitioner
- Solutions Engineer of the Quarter: Q3 2021 & Q1 2022
- President's Club 2024
- Technical Skills: REST APIs, SQL, Python, AWS, GIS, Data Analysis
- Sales Enablement: AI Readiness, SaaS Solutions, RFX Management, GTM Strategy, Public Sector Sales

Attachment 4: Exceptions to RFP Terms and Conditions

Tyler's Proposal is based on the delivery of the requested software and services according to Tyler's standard implementation methodology and Tyler's standard contract. That methodology, and that contract, have been refined and enhanced over Tyler's many years of operation in the public sector information technology market. ***Tyler's submission of its Proposal does not waive Tyler's right to negotiate any and all terms to the mutual satisfaction of the parties.*** Tyler will be obligated to provide products and services only upon execution, and under the terms and conditions, of the mutually negotiated contract between Tyler and the Client.

Tyler considers its implementation methodology and its contract to be the starting point for those negotiations. A link to, or copy of, Tyler's standard contract is included for your reference. If you ask to incorporate your procurement documents and our Proposal documents into the contract package, we will agree to do so as long as the order of priority is: (a) the final, negotiated contract; (b) our Proposal documentation; and (c) your procurement documentation.

Tyler is providing representative exceptions to standard procurement terms and conditions for your review. This list may not include all RFP terms and conditions Tyler may wish to negotiate if selected, and it does not negate any of the expectations Tyler has stated above.

- **Contract Document:** Tyler expects to use the standard Tyler contract as the basis for beginning contract negotiations, as it contains language specific to the software industry, such as license grant and intellectual property infringement. Tyler recognizes that there may be clauses of particular importance to the Client that may not be included in the Tyler contract. Tyler is amenable to accommodating the Client's contract requests by incorporating mutually agreed clauses into the Tyler contract. With respect to the RFP's request for alternative language for exceptions taken, Tyler puts forth the applicable terms as contained in the included sample contract as its proposed alternative language.
- **Insurance:** Tyler has provided its evidence of insurance certificate. Tyler's insurance program is established at a corporate level and is not subject to change for individual customers. While performing services under an agreement with the Client, we will agree to maintain the following levels of insurance: (a) Commercial General Liability (CGL) of \$1,000,000 per occurrence and \$2,000,000 in the aggregate; (b) Automobile Liability of \$1,000,000; (c) Professional Liability (including Cyber Liability) of \$1,000,000; (d) Workers' Compensation complying with applicable statutory requirements; and (e) Excess/Umbrella Liability of \$5,000,000 per occurrence and in the aggregate. The Client can be listed as an additional insured on Tyler's Commercial General Liability policy and Auto Liability policy, which automatically adds Client as an additional insured on Tyler's Excess/Umbrella Liability policy.
- **Ownership:** The Client may use the Tyler Proposal for its internal reference in evaluating proposals. Tyler shall retain ownership of all (i) software products licensed to the Client; and (ii) proprietary information contained in all deliverables. Tyler reserves the right to protest the public disclosure of its confidential and proprietary information, consistent with applicable public records laws. Tyler does not agree to work for hire provisions. Tyler retains all intellectual property and confidentiality rights in and to our proprietary and/or confidential information and deliverables.
- **Public Disclosure:** Tyler will comply with applicable public records laws. Disclosure may be made only to the extent disclosure is required by law, provided, however, that the Client shall give prompt notice of the service of process or other documentation that underlies such requirement to Tyler so that it may obtain a protective order or otherwise protect the confidentiality of Tyler's confidential information.
- **Pricing:** Tyler adheres to its pricing as set forth in its Proposal. Any fees for subsequent periods of time or additional services not addressed in Tyler's Proposal shall be at Tyler's then-current rates. Unless noted otherwise, our services rates do not include travel expenses, which are separately estimated and are

payable in accordance with our then-current Business Travel Policy. Unless expressly indicated otherwise, the fees we have quoted do not include any taxes.

- Information Security and Privacy: Information security is important to Tyler and to every agency and jurisdiction we serve. Tyler agrees to comply with all relevant federal and state laws and regulations on security and privacy, and its handling of security breaches, including notification to customers, conforms to applicable state and federal law. Tyler maintains industry-standard information technology and security policies and practices at a company-wide level, including a documented security incident response plan, that are not subject to change on a client-by-client basis. For hosted services, Tyler utilizes industry standard public cloud deployment methods that provide the highest commercially reasonable system availability and performance. Tyler implements systems utilizing shared responsibility models where responsibility for physical infrastructure is provided by the public cloud provider, application deployment is managed by Tyler, and application configuration is maintained by the customer, where applicable. Tyler follows security best practices dictated and defined by the following three assurance audits: SOX-404 Financial and IT General Controls, PCI Security Council PA-DSS/PCI-DSS, and the AICPA SSAE-21 SOC 1 & SOC 2 Assurance Audits. Our security policy is based on the full NIST Cybersecurity Framework and is reviewed during each audit.
- Compliance with Laws and Regulations: We will comply with all applicable state and federal laws, ordinances, orders, decrees, and regulations. Tyler reserves the right to review and discuss with the Client specific laws and regulations that the Client wishes to incorporate into the final contract. The quoted fees are based, in part, on the cost of compliance with applicable laws existing as of the Proposal submission date. Should laws applicable to Tyler's performance under the contract change, Tyler reserves the right to, for example, seek a change order for the additional work, time and/or cost that may be required to comply with the new law, ordinance or regulation. To the extent compliance requires a modification to the Tyler software, Tyler will provide that modification according to the provisions set forth in the Tyler contract or as otherwise agreed to by the parties.
- Termination: Tyler's standard practice is not to include a termination for convenience provision in its contracts, given the significant investments made by both parties to the procurement and implementation. Tyler relies instead on its termination provisions for cause, non-appropriation, and/or force majeure. The Client may terminate the contract for cause in the event Tyler fails to cure a material breach according to the terms of the dispute resolution process set forth in Tyler's standard contract. The Client will make payment to Tyler for all products, services and expenses delivered or incurred through the effective date of termination that were not previously disputed under the contract. Payment for disputed products, services and expenses, and the Client's remedies, will be determined through the mutually agreed dispute resolution process.
- Warranties: Tyler provides a comprehensive, objective software warranty tied to functional descriptions of the Tyler software. Tyler does not provide implied warranties, including the implied warranties of merchantability and fitness for a particular purpose, as they are subjective. For as long as the Client is current on paying its fees, Tyler warrants that the Tyler software will substantially conform to the functional descriptions of the Tyler software contained in Tyler's Proposal, or their functional equivalent. Future functionality may be updated, modified, or otherwise enhanced through our maintenance and support services, and the governing functional descriptions for such future functionality will be set forth in our then-current documentation. Tyler warrants that it will perform services in a professional, workmanlike manner, consistent with industry standards. In the event Tyler provides services that do not conform to this warranty, Tyler will re-perform the services at no additional cost to the Client. Tyler passes through to its clients all warranties received on third party products. Tyler disclaims all other warranties.

- Limitation of Liability: Except as otherwise expressly set forth in the agreement, Tyler's liability for damages arising out of the contract, whether based on a theory of contract or tort, including negligence and strict liability, shall be limited to the lesser of (a) Client's actual direct damages or (b) the amounts paid by Client under the contract for the then-current term. To the maximum extent permitted by applicable law, in no event shall Tyler be liable for any special, incidental, punitive, indirect, or consequential damages whatsoever, even if Tyler has been advised of the possibility of such damages.
- Indemnification: Tyler shall defend, indemnify and hold harmless the Client from and against any and all direct claims, losses, liabilities, damages, costs and expenses (including reasonable attorney's fees and costs) from third parties for personal injury or property damage arising from Tyler's negligence or willful misconduct; or Tyler's violation of a law applicable to Tyler's performance under the contract. The Client must notify Tyler promptly in writing of the claim and give Tyler sole control over its defense or settlement. The Client agrees to provide Tyler with reasonable assistance, cooperation, and information in defending the claim at Tyler's expense.
- Exclusion of Damages: To the maximum extent permitted by applicable law, in no event shall Tyler be liable for any special, incidental, punitive, indirect, or consequential damages whatsoever, even if Tyler has been advised of the possibility of such damages. Tyler does not agree to Client's right to seek specific performance. Tyler does not agree to Client's right to hire outside sources at Tyler's expense.
- Liquidated Damages: Tyler cannot agree to liquidated damages provisions. Tyler is willing to negotiate a mutually agreeable retention amount on services payments.
- Acceptance: Tyler is willing to negotiate a mutually agreeable acceptance process based on warranted functionality.
- ADA Compliance: Tyler agrees to comply with the applicable disability laws, rules, and regulations as they relate to its employment practices and the services being proposed. Tyler reserves the right to discuss the applicability of digital accessibility laws, rules, and regulations, as well as non-binding industry guidance, to the software products being proposed.
- Assignment: Neither party may assign the contract without the prior written consent of the other party, except that Tyler may, without the prior written consent of the Client, assign the contract in its entirety to the surviving entity of any merger or consolidation or to any purchaser of substantially all of Tyler's assets.
- Business License: In the event a local business license is required for Tyler to perform the services in the contract, you will promptly notify Tyler and provide us with the necessary paperwork and/or contact information so that we may timely obtain such license.
- Client Assistance/Delay: Client acknowledges that the provision of services for the Tyler Software is a cooperative process that may require the time and resources of your personnel. Client agrees to use all reasonable efforts to cooperate with and assist Tyler as may be reasonably required. This cooperation includes at least working with us to schedule the services outlined in the contract. We will not be liable for failure to meet any deadlines and milestones when such failure is due to Force Majeure or to the failure by your personnel to provide such cooperation and assistance (either through action or omission).
- Confidential Information: Each party agrees that it will not disclose any confidential information of the other party and further agrees to take all reasonable and appropriate action to prevent such disclosure by its employees or agents. Confidential information is nonpublic information that a reasonable person would believe to be confidential and includes, without limitation, personal identifying information (e.g., social security numbers) and trade secrets, each as defined by applicable state law. The confidentiality covenants will survive the termination or cancellation of the contract. This obligation of confidentiality will not apply to information that: 1) is in the public domain, either at the time of disclosure or afterwards, except by breach of the contract by a party or its employees or agents; 2) a party can

establish by reasonable proof was in that party's possession at the time of initial disclosure; 3) a party receives from a third party who has a right to disclose it to the receiving party; or 4) is the subject of a legitimate disclosure request under the open records laws or similar applicable public disclosure laws governing the contract; provided, however, that in the event you receive an open records or other similar applicable request, you will give us prompt notice and otherwise perform the functions required by applicable law.

- **Data Breach:** Tyler will report data breaches, as such breaches are defined by applicable law, and take all other required actions as required by, and in accordance with, all applicable state and federal data breach notification laws.
- **Disaster Recovery Plan:** Tyler's Disaster Recovery Plan is one of the controls that is audited in our SOC report. We do not share our Disaster Recovery Plan as that would create a security exposure that could be detrimental to keeping our SaaS Services secure.
- **Dispute Resolution/Remedies:** Resolution of contract or payment disputes shall be in accordance with the invoice and dispute resolution procedures in the standard Tyler contract. Any additional remedies are in accordance with Tyler's standard contract. Tyler does not agree to liability for cover costs, substitute goods, substitute services, or the like.
- **Documentation:** Tyler will make available such documentation as it makes generally available to all clients using the proposed software and services, and reserves the right to provide some or all documentation electronically, including embedding in the Tyler Software.
- **Non-Appropriation:** If the Client should not appropriate or otherwise make available funds sufficient to purchase, lease, operate or maintain the products set forth in the contract, the Client may unilaterally terminate the contract upon thirty days' prior written notice to Tyler. Upon termination, the Client shall remit payment for all products and services delivered to the Client and all expenses incurred by Tyler prior to Tyler's receipt of the termination notice. The Client will not be entitled to a refund or offset of previously paid license and other fees.
- **Payment Terms:** Tyler's standard payment terms are set forth in the Invoicing and Payment Policy (Exhibit B) to the standard Tyler contract. Payment is due within forty-five (45) days of invoicing.
- **PCI Compliance:** Tyler has company-wide payment processing policies and agreements in place, and these policies and agreements, and the third parties with whom we contract to provide payment processing services, are not subject to change on a client-by-client basis. By entering into an agreement with Tyler for the provision of credit card processing services, Client accepts and approves the firms with which Tyler contracts to provide these services.
- **Personnel:** Tyler will provide information on representative Tyler personnel. We are unable to assign personnel to a project until Tyler is selected and a contract is signed, in an effort to most effectively use resources. In the event Tyler personnel provide services that do not conform to Tyler's services warranty, Tyler will be given an opportunity to correct the deficiency. In the event the deficiency persists, the Client may require the removal of personnel in question. Tyler will use commercially reasonable efforts to not remove Tyler personnel providing ongoing services from the Client's implementation. Tyler conducts routine background checks as part of pre-employment screening. Any additional background checks for Tyler personnel providing onsite services must be mutually agreed to by Tyler and the Client. Tyler does not agree that Client may unilaterally approve or deny any proposed project team member.
- **Policy Compliance:** **Tyler reserves the right to review and discuss with Client all applicable Client policies and procedures. Any changes made to Client's policies and procedures after the effective date of the agreement shall be mutually agreed to by the parties.**
- **Right to Audit/Records Retention:** The Client may audit Tyler's books and records relating directly to the contract once per year on one week advance written notice, and at Client's expense. Tyler will retain

records directly related to its contract obligations for the greater of (i) five years from creation or (ii) such time period as is required by applicable law.

- Support/Service Levels: Tyler's support services are documented in our current Support Call Process. Client may use SaaS Services to access and use the Tyler Software, access updates and enhancements, and receive maintenance and support on the Tyler Software. Tyler's Service Level Agreement outlines the information technology service levels that we provide to our clients to ensure the availability of the application services requested.
- Time is of the Essence: Tyler does not agree to "time being made of the essence." Tyler will begin and perform services in accordance with the mutually agreed upon implementation plan schedule.
- Quantities: Where services are quoted and provided on a time and materials basis, the Client may increase or decrease quantities of services purchased at any time. The Client may not decrease quantities of software licensed after contract signing.

Attachment 5: Tyler SaaS Agreement



SOFTWARE AS A SERVICE AGREEMENT

This Software as a Service Agreement is made between Tyler Technologies, Inc. and Client.

WHEREAS, Client selected Tyler to provide certain products and services set forth in the Investment Summary, including providing Client with access to Tyler's proprietary software products, and Tyler desires to provide such products and services under the terms of this Agreement;

NOW THEREFORE, in consideration of the foregoing and of the mutual covenants and promises set forth in this Agreement, Tyler and Client agree as follows:

SECTION A – DEFINITIONS

- **"Agreement"** means this Software as a Services Agreement.
- **"Business Travel Policy"** means our business travel policy. A copy of our current Business Travel Policy is attached as Schedule 1 to Exhibit B.
- **"Client"** means _____.
- **"Data"** means your data necessary to utilize the Tyler Software.
- **"Data Storage Capacity"** means the contracted amount of storage capacity for your Data identified in the Investment Summary, if any.
- **"Defect"** means a failure of the Tyler Software to substantially conform to the functional descriptions set forth in our written proposal to you, or their functional equivalent, based on a condition within our reasonable control. Future functionality may be updated, modified, or otherwise enhanced through our maintenance and support services, and the governing functional descriptions for such future functionality will be set forth in our then-current Documentation.
- **"Developer"** means a third party who owns the intellectual property rights to Third Party Software.
- **"Documentation"** means any online or written documentation related to the use or functionality of the Tyler Software that we provide or otherwise make available to you, including instructions, user guides, manuals and other training or self-help documentation.
- **"Effective Date"** means the last signature date set forth in the signature block.
- **"Force Majeure"** means an event beyond the reasonable control of you or us, including, without limitation, governmental action, war, riot or civil commotion, fire, natural disaster, or any other cause that could not with reasonable diligence be foreseen or prevented by you or us.
- **"Investment Summary"** means the agreed upon cost proposal for the products and services attached as Exhibit A.
- **"Invoicing and Payment Policy"** means the invoicing and payment policy. A copy of our current Invoicing and Payment Policy is attached as Exhibit B.

- **“Order Form”** means an ordering document that includes a quote or investment summary and specifying the items to be provided by Tyler to the Client, including any addenda and supplements thereto.
- **“SaaS Fees”** means the fees for the SaaS Services identified in the Investment Summary.
- **“SaaS Services”** means software as a service consisting of system administration, system management, and system monitoring activities that Tyler performs for the Tyler Software, and includes the right to access and use the Tyler Software, receive maintenance and support on the Tyler Software, including Downtime resolution under the terms of the SLA, and Data storage and archiving. SaaS Services do not include support of an operating system or hardware, support outside of our normal business hours, or training, consulting or other professional services.
- **“SLA”** means the service level agreement. A copy of our current SLA is attached hereto as Exhibit C.
- **“Statement of Work”** means the industry standard implementation plan describing how our professional services will be provided to implement the Tyler Software, and outlining your and our roles and responsibilities in connection with that implementation. The Statement of Work is attached as Exhibit D.
- **“Support Call Process”** means the support call process applicable to all of our customers who have licensed the Tyler Software. A copy of our current Support Call Process is attached as Schedule 1 to Exhibit C.
- **“Third Party Hardware”** means the third party hardware, if any, identified in the Investment Summary.
- **“Third Party Products”** means the Third Party Software and Third Party Hardware.
- **“Third Party SaaS Services”** means software as a service provided by a third party, if any, identified in the Investment Summary.
- **“Third Party Software”** means the third party software, if any, identified in the Investment Summary and not embedded in the Tyler Software.
- **“Third Party Terms”** means, if any, the end user license agreement(s) or similar terms, as applicable.
- **“Tyler”** means Tyler Technologies, Inc., a Delaware corporation.
- **“Tyler Software”** means our proprietary software, including any integrations, custom modifications, and/or other related interfaces identified in the Investment Summary and licensed by us to you through this Agreement. The Tyler Software also includes embedded third-party software that we are licensed to embed in our proprietary software and sub-license to you.
- **“we”, “us”, “our”** and similar terms mean Tyler.
- **“you”** and similar terms mean Client.

SECTION B – SAAS SERVICES

1. **Rights Granted.** We grant to you the non-exclusive, non-assignable limited right to use the SaaS Services solely for your internal business purposes. The Tyler Software will be made available to you according to the terms of the SLA. You acknowledge that we have no delivery obligations and we will not ship copies of the Tyler Software as part of the SaaS Services. You may use the SaaS Services to access updates and enhancements to the Tyler Software, as further described in Section C(9).
2. **SaaS Fees.** You agree to pay us the SaaS Fees. Those amounts are payable in accordance with our Invoicing and Payment Policy. The SaaS Fees are based on the amount of Data Storage Capacity. You may add additional data storage capacity on the terms set forth in Section H(1). In the event you regularly and/or meaningfully exceed the Data Storage Capacity, we reserve the right to charge you additional fees

commensurate with the overage(s).

3. Ownership.

3.1 We retain all ownership and intellectual property rights to the SaaS Services, the Tyler Software, and anything developed by us under this Agreement. You do not acquire under this Agreement any license to use the Tyler Software in excess of the scope and/or duration of the SaaS Services.

3.2 The Documentation is licensed to you and may be used and copied by your employees for internal, non-commercial reference purposes only.

3.3 You retain all ownership and intellectual property rights to the Data. You expressly recognize that except to the extent necessary to carry out our obligations contained in this Agreement, we do not create or endorse any Data used in connection with the SaaS Services.

4. Restrictions. You may not: (a) make the Tyler Software or Documentation resulting from the SaaS Services available in any manner to any third party for use in the third party's business operations; (b) modify, make derivative works of, disassemble, reverse compile, or reverse engineer any part of the SaaS Services; (c) access or use the SaaS Services in order to build or support, and/or assist a third party in building or supporting, products or services competitive to us; or (d) license, sell, rent, lease, transfer, assign, distribute, display, host, outsource, disclose, permit timesharing or service bureau use, or otherwise commercially exploit or make the SaaS Services, Tyler Software, or Documentation available to any third party other than as expressly permitted by this Agreement.

5. Software Warranty. We warrant that the Tyler Software will perform without Defects during the term of this Agreement. If the Tyler Software does not perform as warranted, we will use all reasonable efforts, consistent with industry standards, to cure the Defect in accordance with the maintenance and support process set forth in Section C(9), below, the SLA and our then current Support Call Process or to provide you with a functional equivalent. For the avoidance of doubt, to the extent any third-party software is embedded in the Tyler Software, your limited warranty rights are limited to our Defect resolution obligations set forth above; you do not have separate rights against the developer of the embedded third-party software.

6. SaaS Services.

6.1 Our SaaS Services are audited at least yearly in accordance with the AICPA's Statement on Standards for Attestation Engagements ("SSAE") No. 21. We will maintain, SOC 1 and SOC 2 compliance, or its equivalent, for so long as you are timely paying for SaaS Services. The scope of audit coverage varies for some Tyler Software solutions. Upon execution of a mutually agreeable Non-Disclosure Agreement ("NDA"), we will provide you with a summary of our compliance report(s) or its equivalent. Every year thereafter, for so long as the NDA is in effect and in which you make a written request, we will provide that same information. If our SaaS Services are provided using a third-party data center, we will provide available compliance reports for that data center.

6.2 You will be hosted on shared hardware in a Tyler data center or in a third-party data center. In either

event, databases containing your Data will be dedicated to you and inaccessible to our other customers.

- 6.3 The data centers utilized under this Agreement have fully-redundant telecommunications access, electrical power, and the required hardware to provide access to the Tyler Software in the event of a disaster or component failure. In the event of a disruption of SaaS Services from the data center hosting your data, we reserve the right to employ our disaster recovery plan for resumption of the SaaS Services. In that event, we commit to a Recovery Point Objective (“RPO”) of 24 hours and a Recovery Time Objective (“RTO”) of 24 hours. RPO represents the maximum duration of time between the most recent recoverable copy of your hosted Data and subsequent unavailability of SaaS Services from the data center hosting your data. RTO represents the maximum duration of time following disruption of the SaaS Services within which your access to the Tyler Software must be restored.
- 6.4 We conduct annual penetration testing of either the production network and/or web application to be performed. We will maintain industry standard intrusion detection and prevention systems to monitor malicious activity in the network and to log and block any such activity. We will provide you with a written or electronic record of the actions taken by us in the event that any unauthorized access to your database(s) is detected as a result of our security protocols. You may not attempt to bypass or subvert security restrictions in the SaaS Services or environments related to the Tyler Software. Unauthorized attempts to access files, passwords or other confidential information, and unauthorized vulnerability and penetration test scanning of our network and systems (hosted or otherwise) is prohibited without the prior written approval of our IT Security Officer.
- 6.5 We test our disaster recovery plan on an annual basis and mitigate any findings in accordance with industry standards.
- 6.6 We will be responsible for importing back-up and verifying that you can log-in. You will be responsible for running reports and testing critical processes to verify the returned Data.
- 6.7 We provide secure Data transmission paths between each of your workstations and our servers.
- 6.8 The data centers utilized under this Agreement are accessible only by authorized personnel with a unique key entry. All other visitors to such data centers must be signed in and accompanied by authorized personnel. Entry attempts to the data center are regularly audited by internal staff and external auditors to ensure no unauthorized access.

SECTION C – OTHER PROFESSIONAL SERVICES

1. Other Professional Services. We will provide you the various implementation-related services itemized in the Investment Summary and described in the Statement of Work.
2. Professional Services Fees. You agree to pay us the professional services fees in the amounts set forth in the Investment Summary. Those amounts are payable in accordance with our Invoicing and Payment Policy.

3. Additional Services. The Investment Summary contains, and the Statement of Work describes, the scope of services and related costs (including programming and/or interface estimates) required for the project based on the documented scope of the project as of the Effective Date. If additional work is required, or if you use or request additional services, we will provide you with an addendum or change order, as applicable, outlining the costs for the additional work.
4. Cancellation. If travel is required, we will make all reasonable efforts to schedule travel for our personnel, including arranging travel reservations, at least two (2) weeks in advance of commitments. Therefore, if you repeatedly cancel services less than two (2) weeks in advance (other than for Force Majeure or breach by us), you will be liable for all (a) non-refundable expenses incurred by us on your behalf, and (b) daily fees associated with cancelled professional services if we are unable to reassign our personnel. We will make all reasonable efforts to reassign personnel in the event you cancel within two (2) weeks of scheduled commitments.
5. Services Warranty. We will perform the services in a professional, workmanlike manner, consistent with industry standards. In the event we provide services that do not conform to this warranty, we will re-perform such services at no additional cost to you.
6. Site Access and Requirements. At no cost to us, you agree to provide us with full and free access to your personnel, facilities, and equipment as may be reasonably necessary for us to provide implementation services, subject to any reasonable security protocols or other written policies provided to us as of the Effective Date, and thereafter as mutually agreed to by you and us. You agree that it is your responsibility to ensure that you satisfy the then-current system requirements, if any, minimally required to run the Tyler Software.
7. Client Assistance. You acknowledge that the implementation of the Tyler Software, and the ability to meet project deadlines and other milestones, is a cooperative effort requiring the time and resources of your personnel, as well as ours. You agree to use all reasonable efforts to cooperate with and assist us as may be reasonably required to meet the agreed upon project deadlines and other milestones for implementation. This cooperation includes at least working with us to schedule the implementation-related services outlined in this Agreement.
8. Background Checks. For at least the past twelve (12) years, all of our employees have undergone criminal background checks prior to hire. All employees sign our confidentiality agreement and security policies.
9. Maintenance and Support. For so long as you timely pay your SaaS Fees according to the Invoicing and Payment Policy, then in addition to the terms set forth in the SLA and the Support Call Process, we will:
 - 9.1 perform our maintenance and support obligations in a professional, good, and workmanlike manner, consistent with industry standards, to resolve Defects in the Tyler Software (subject to any applicable release life cycle policy);
 - 9.2 provide support during our established support hours;
 - 9.3 maintain personnel that are sufficiently trained to be familiar with the Tyler Software and Third Party

Software, if any, in order to provide maintenance and support services;

- 9.4 make available to you all releases to the Tyler Software (including updates and enhancements) that we make generally available without additional charge to customers who have a maintenance and support agreement in effect; and
- 9.5 provide non-Defect resolution support of prior releases of the Tyler Software in accordance with any applicable release life cycle policy.

We will use all reasonable efforts to perform any maintenance and support services remotely. Currently, we use a third-party secure connectivity tool called BeyondTrust (formerly Bomgar), as well as GoToAssist by Citrix. You agree to provide us with a login account and local administrative privileges as we may reasonably require to perform remote services. We will, at our option, use the secure connection to assist with proper diagnosis and resolution, subject to any reasonably applicable security protocols. If we cannot resolve a support issue remotely, we may be required to provide onsite services. In such event, we will be responsible for our travel expenses, unless it is determined that the reason onsite support was required was a reason outside our control. Either way, you agree to provide us with full and reasonable access to the Tyler Software, working space, adequate facilities within a reasonable distance from the equipment, and use of machines, attachments, features, or other equipment reasonably necessary for us to provide the maintenance and support services, all at no charge to us.

For the avoidance of doubt, SaaS Fees do not include the following services: (a) onsite support (unless Tyler cannot remotely correct a Defect in the Tyler Software, as set forth above); (b) application design; (c) other consulting services; or (d) support outside our normal business hours as listed in our then-current Support Call Process. Requested services such as those outlined in this section will be billed to you on a time and materials basis at our then current rates. You must request those services with at least one (1) week's advance notice.

SECTION D – THIRD PARTY PRODUCTS

To the extent there are any Third Party Products identified in the Investment Summary, the Third Party Terms will apply. You acknowledge that we may have embedded third-party functionality in the Tyler Software that is not separately identified in the Investment Summary. If that third-party functionality is not separately identified in the Investment Summary, the limited warranty applicable to the Tyler Software applies, and we further warrant that the appropriate Developer has granted us the necessary license to (i) embed the unidentified third-party functionality in the Tyler Software; and (ii) sub-license it to you through our license grant to the Tyler Software. You may receive maintenance and support on such embedded third-party software under the Maintenance and Support Agreement.

SECTION E – INVOICING AND PAYMENT; INVOICE DISPUTES

1. Invoicing and Payment. We will invoice you the SaaS Fees and fees for other professional services in the Investment Summary per our Invoicing and Payment Policy, subject to Section E(2).

2. **Invoice Disputes.** If you believe any delivered software or service does not conform to the warranties in this Agreement, you will provide us with written notice within thirty (30) days of your receipt of the applicable invoice. The written notice must contain reasonable detail of the issues you contend are in dispute so that we can confirm the issue and respond to your notice with either a justification of the invoice, an adjustment to the invoice, or a proposal addressing the issues presented in your notice. We will work with you as may be necessary to develop an action plan that outlines reasonable steps to be taken by each of us to resolve any issues presented in your notice. You may withhold payment of the amount(s) actually in dispute, and only those amounts, until we complete the action items outlined in the plan. If we are unable to complete the action items outlined in the action plan because of your failure to complete the items agreed to be done by you, then you will remit full payment of the invoice. We reserve the right to suspend delivery of all SaaS Services, including maintenance and support services, if you fail to pay an invoice not disputed as described above within fifteen (15) days of notice of our intent to do so.

SECTION F – TERM AND TERMINATION

1. **Term.** The initial term of this Agreement is three (3) years from the first day of the first month following the Effective Date, unless earlier terminated as set forth below. Upon expiration of the initial term, this Agreement will renew automatically for additional one (1) year renewal terms at our then-current SaaS Fees unless terminated in writing by either party at least sixty (60) days prior to the end of the then-current renewal term. Your right to access or use the Tyler Software and the SaaS Services will terminate at the end of this Agreement.
2. **Termination.** This Agreement may be terminated as set forth below. In the event of termination, you will pay us for all undisputed fees and expenses related to the software, products, and/or services you have received, or we have incurred or delivered, prior to the effective date of termination. Disputed fees and expenses in all terminations other than your termination for cause must have been submitted as invoice disputes in accordance with Section E(2).
 - 2.1 **Failure to Pay SaaS Fees.** You acknowledge that continued access to the SaaS Services is contingent upon your timely payment of SaaS Fees. If you fail to timely pay the SaaS Fees, we may discontinue the SaaS Services and deny your access to the Tyler Software. We may also terminate this Agreement if you don't cure such failure to pay within forty-five (45) days of receiving written notice of our intent to terminate.
 - 2.2 **For Cause.** If you believe we have materially breached this Agreement, you will invoke the Dispute Resolution clause set forth in Section H(3). You may terminate this Agreement for cause in the event we do not cure, or create a mutually agreeable action plan to address, a material breach of this Agreement within the thirty (30) day window set forth in Section H(3).
 - 2.3 **Force Majeure.** Either party has the right to terminate this Agreement if a Force Majeure event suspends performance of the SaaS Services for a period of forty-five (45) days or more.
 - 2.4 **Lack of Appropriations.** If you should not appropriate or otherwise make available funds sufficient to utilize the SaaS Services, you may unilaterally terminate this Agreement upon thirty (30) days written

notice to us. You will not be entitled to a refund or offset of previously paid, but unused SaaS Fees. You agree not to use termination for lack of appropriations as a substitute for termination for convenience.

SECTION G – INDEMNIFICATION, LIMITATION OF LIABILITY AND INSURANCE

1. Intellectual Property Infringement Indemnification.

- 1.1 We will defend you against any third party claim(s) that the Tyler Software or Documentation infringes that third party's patent, copyright, or trademark, or misappropriates its trade secrets, and will pay the amount of any resulting adverse final judgment (or settlement to which we consent). You must notify us promptly in writing of the claim and give us sole control over its defense or settlement. You agree to provide us with reasonable assistance, cooperation, and information in defending the claim at our expense.
- 1.2 Our obligations under this Section G(1) will not apply to the extent the claim or adverse final judgment is based on your use of the Tyler Software in contradiction of this Agreement, including with non-licensed third parties, or your willful infringement.
- 1.3 If we receive information concerning an infringement or misappropriation claim related to the Tyler Software, we may, at our expense and without obligation to do so, either: (a) procure for you the right to continue its use; (b) modify it to make it non-infringing; or (c) replace it with a functional equivalent, in which case you will stop running the allegedly infringing Tyler Software immediately. Alternatively, we may decide to litigate the claim to judgment, in which case you may continue to use the Tyler Software consistent with the terms of this Agreement.
- 1.4 If an infringement or misappropriation claim is fully litigated and your use of the Tyler Software is enjoined by a court of competent jurisdiction, in addition to paying any adverse final judgment (or settlement to which we consent), we will, at our option, either: (a) procure the right to continue its use; (b) modify it to make it non-infringing; or (c) replace it with a functional equivalent. We will pursue those options in the order listed herein. This section provides your exclusive remedy for third party copyright, patent, or trademark infringement and trade secret misappropriation claims.

2. General Indemnification.

- 2.1 We will defend, indemnify, and hold harmless you and your agents, officials, and employees from and against any and all third-party claims, losses, liabilities, damages, costs, and expenses (including reasonable attorney's fees and costs) for (a) personal injury or property damage to the extent caused by our negligence or willful misconduct; or (b) our violation of a law applicable to our performance under this Agreement. You must notify us promptly in writing of the claim and give us sole control over its defense or settlement. You agree to provide us with reasonable assistance, cooperation, and information in defending the claim at our expense.
- 2.2 To the extent permitted by applicable law, you will indemnify and hold harmless us and our agents, officials, and employees from and against any and all third-party claims, losses, liabilities, damages, costs, and expenses (including reasonable attorney's fees and costs) for personal injury or property

damage to the extent caused by your negligence or willful misconduct; or (b) your violation of a law applicable to your performance under this Agreement. We will notify you promptly in writing of the claim and will give you sole control over its defense or settlement. We agree to provide you with reasonable assistance, cooperation, and information in defending the claim at your expense.

3. **DISCLAIMER. EXCEPT FOR THE EXPRESS WARRANTIES PROVIDED IN THIS AGREEMENT AND TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, WE HEREBY DISCLAIM ALL OTHER WARRANTIES AND CONDITIONS, WHETHER EXPRESS, IMPLIED, OR STATUTORY, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES, DUTIES, OR CONDITIONS OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. CLIENT UNDERSTANDS AND AGREES THAT TYLER DISCLAIMS ANY LIABILITY FOR ERRORS THAT RELATE TO USER ERROR.**

4. **LIMITATION OF LIABILITY. EXCEPT AS OTHERWISE EXPRESSLY SET FORTH IN THIS AGREEMENT, OUR LIABILITY FOR DAMAGES ARISING OUT OF THIS AGREEMENT, WHETHER BASED ON A THEORY OF CONTRACT OR TORT, INCLUDING NEGLIGENCE AND STRICT LIABILITY, SHALL BE LIMITED TO YOUR ACTUAL DIRECT DAMAGES, NOT TO EXCEED (A) DURING THE INITIAL TERM, AS SET FORTH IN SECTION F(1), TOTAL FEES PAID AS OF THE TIME OF THE CLAIM; OR (B) DURING ANY RENEWAL TERM, THE THEN-CURRENT ANNUAL SAAS FEES PAYABLE IN THAT RENEWAL TERM. THE PARTIES ACKNOWLEDGE AND AGREE THAT THE PRICES SET FORTH IN THIS AGREEMENT ARE SET IN RELIANCE UPON THIS LIMITATION OF LIABILITY AND TO THE MAXIMUM EXTENT ALLOWED UNDER APPLICABLE LAW, THE EXCLUSION OF CERTAIN DAMAGES, AND EACH SHALL APPLY REGARDLESS OF THE FAILURE OF AN ESSENTIAL PURPOSE OF ANY REMEDY. THE FOREGOING LIMITATION OF LIABILITY SHALL NOT APPLY TO CLAIMS THAT ARE SUBJECT TO SECTIONS G(1) AND G(2).**

5. **EXCLUSION OF CERTAIN DAMAGES. TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, IN NO EVENT SHALL WE BE LIABLE FOR ANY SPECIAL, INCIDENTAL, PUNITIVE, INDIRECT, OR CONSEQUENTIAL DAMAGES WHATSOEVER, EVEN IF WE HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.**

6. **Insurance.** During the course of performing services under this Agreement, we agree to maintain the following levels of insurance: (a) Commercial General Liability of at least \$1,000,000; (b) Automobile Liability of at least \$1,000,000; (c) Professional Liability of at least \$1,000,000; (d) Workers Compensation complying with applicable statutory requirements; and (e) Excess/Umbrella Liability of at least \$5,000,000. We will add you as an additional insured to our Commercial General Liability and Automobile Liability policies, which will automatically add you as an additional insured to our Excess/Umbrella Liability policy as well. We will provide you with copies of certificates of insurance upon your written request.

SECTION H – GENERAL TERMS AND CONDITIONS

1. **Additional Products and Services.** You may purchase additional Tyler products and services at the rates set forth in the Investment Summary for twelve (12) months from the Effective Date by executing a mutually agreed addendum or Tyler purchase order. If no rate is provided in the Investment Summary, or those twelve (12) months have expired, you may purchase additional Tyler products and services at our then-current list price, also by executing a mutually agreed addendum or Tyler purchase order. The terms of this Agreement will control any such additional purchase(s), unless otherwise specifically provided in the addendum or Tyler purchase order.

2. Optional Items. Pricing for any listed optional products and services in the Investment Summary will be valid for twelve (12) months from the Effective Date.
3. Dispute Resolution. You agree to provide us with written notice within thirty (30) days of becoming aware of a dispute. You agree to cooperate with us in trying to reasonably resolve all disputes, including, if requested by either party, appointing a senior representative to meet and engage in good faith negotiations with our appointed senior representative. Senior representatives will convene within thirty (30) days of the written dispute notice, unless otherwise agreed. All meetings and discussions between senior representatives will be deemed confidential settlement discussions not subject to disclosure under Federal Rule of Evidence 408 or any similar applicable state rule. If we fail to resolve the dispute, then the parties shall participate in non-binding mediation in an effort to resolve the dispute. If the dispute remains unresolved after mediation, then either of us may assert our respective rights and remedies in a court of competent jurisdiction. Nothing in this section shall prevent you or us from seeking necessary injunctive relief during the dispute resolution procedures.
4. Taxes. The fees in the Investment Summary do not include any taxes, including, without limitation, sales, use, or excise tax. If you are a tax-exempt entity, you agree to provide us with a tax-exempt certificate. Otherwise, we will pay all applicable taxes to the proper authorities and you will reimburse us for such taxes. If you have a valid direct-pay permit, you agree to provide us with a copy. For clarity, we are responsible for paying our income taxes, both federal and state, as applicable, arising from our performance of this Agreement.
5. Nondiscrimination. We will not discriminate against any person employed or applying for employment concerning the performance of our responsibilities under this Agreement. This discrimination prohibition will apply to all matters of initial employment, tenure, and terms of employment, or otherwise with respect to any matter directly or indirectly relating to employment concerning race, color, religion, national origin, age, sex, sexual orientation, ancestry, disability that is unrelated to the individual's ability to perform the duties of a particular job or position, height, weight, marital status, or political affiliation. We will post, where appropriate, all notices related to nondiscrimination as may be required by applicable law.
6. E-Verify. We have complied, and will comply, with the E-Verify procedures administered by the U.S. Citizenship and Immigration Services Verification Division for all of our employees assigned to your project.
7. Subcontractors. We will not subcontract any services under this Agreement without your prior written consent, not to be unreasonably withheld.
8. Binding Effect; No Assignment. This Agreement shall be binding on, and shall be for the benefit of, either your or our successor(s) or permitted assign(s). Neither party may assign this Agreement without the prior written consent of the other party; provided, however, your consent is not required for an assignment by us as a result of a corporate reorganization, merger, acquisition, or purchase of substantially all of our assets.
9. Force Majeure. Except for your payment obligations, neither party will be liable for delays in performing its obligations under this Agreement to the extent that the delay is caused by Force Majeure; provided, however, that within ten (10) business days of the Force Majeure event, the party whose performance is

delayed provides the other party with written notice explaining the cause and extent thereof, as well as a request for a reasonable time extension equal to the estimated duration of the Force Majeure event.

10. No Intended Third Party Beneficiaries. This Agreement is entered into solely for the benefit of you and us. No third party will be deemed a beneficiary of this Agreement, and no third party will have the right to make any claim or assert any right under this Agreement. This provision does not affect the rights of third parties under any Third Party Terms.
11. Entire Agreement; Amendment. This Agreement represents the entire agreement between you and us with respect to the subject matter hereof, and supersedes any prior agreements, understandings, and representations, whether written, oral, expressed, implied, or statutory. Purchase orders submitted by you, if any, are for your internal administrative purposes only, and the terms and conditions contained in those purchase orders will have no force or effect. This Agreement may only be modified by a written amendment signed by an authorized representative of each party.
12. Severability. If any term or provision of this Agreement is held invalid or unenforceable, the remainder of this Agreement will be considered valid and enforceable to the fullest extent permitted by law.
13. No Waiver. In the event that the terms and conditions of this Agreement are not strictly enforced by either party, such non-enforcement will not act as or be deemed to act as a waiver or modification of this Agreement, nor will such non-enforcement prevent such party from enforcing each and every term of this Agreement thereafter.
14. Independent Contractor. We are an independent contractor for all purposes under this Agreement.
15. Notices. All notices or communications required or permitted as a part of this Agreement, such as notice of an alleged material breach for a termination for cause or a dispute that must be submitted to dispute resolution, must be in writing and will be deemed delivered upon the earlier of the following: (a) actual receipt by the receiving party; (b) upon receipt by sender of a certified mail, return receipt signed by an employee or agent of the receiving party; (c) upon receipt by sender of proof of email delivery; or (d) if not actually received, five (5) days after deposit with the United States Postal Service authorized mail center with proper postage (certified mail, return receipt requested) affixed and addressed to the other party at the address set forth on the signature page hereto or such other address as the party may have designated by proper notice. The consequences for the failure to receive a notice due to improper notification by the intended receiving party of a change in address will be borne by the intended receiving party.
16. Client Lists. You agree that we may identify you by name in client lists, marketing presentations, and promotional materials.
17. Confidentiality. Both parties recognize that their respective employees and agents, in the course of performance of this Agreement, may be exposed to confidential information and that disclosure of such information could violate rights to private individuals and entities, including the parties. Confidential information is nonpublic information that a reasonable person would believe to be confidential and includes, without limitation, personal identifying information (*e.g.*, social security numbers) and trade

secrets, each as defined by applicable state law. Each party agrees that it will not disclose any confidential information of the other party and further agrees to take all reasonable and appropriate action to prevent such disclosure by its employees or agents. To the extent Client engages independent contractors to fulfill its obligations under this Agreement, Client shall enter into a written agreement with said independent contractors that contains confidentiality covenants at least as restrictive as the confidentiality covenants contained herein. The confidentiality covenants contained herein will survive the termination or cancellation of this Agreement. This obligation of confidentiality will not apply to information that:

- (a) is in the public domain, either at the time of disclosure or afterwards, except by breach of this Agreement by a party or its employees or agents; or
- (b) a party can establish by reasonable proof was in that party's possession at the time of initial disclosure; or
- (c) a party receives from a third party who has a right to disclose it to the receiving party; or
- (d) is the subject of a legitimate disclosure request under the open records laws or similar applicable public disclosure laws governing this Agreement, or a subpoena; provided, however, that in the event you receive an open records or other similar applicable request, you will give us prompt notice and otherwise perform the functions required by applicable law.

18. Business License. In the event a local business license is required for us to perform services hereunder, you will promptly notify us and provide us with the necessary paperwork and/or contact information so that we may timely obtain such license.
19. Governing Law. This Agreement will be governed by and construed in accordance with the laws of your state of domicile, without regard to its rules on conflicts of law.
20. Multiple Originals and Authorized Signatures. This Agreement may be executed in multiple originals, any of which will be independently treated as an original document. Any electronic, faxed, scanned, photocopied, or similarly reproduced signature on this Agreement or any amendment hereto will be deemed an original signature and will be fully enforceable as if an original signature. Each party represents to the other that the signatory set forth below is duly authorized to bind that party to this Agreement.
21. Cooperative Procurement. To the maximum extent permitted by applicable law, we agree that this Agreement may be used as a cooperative procurement vehicle by eligible jurisdictions. We reserve the right to negotiate and customize the terms and conditions set forth herein, including but not limited to pricing, to the scope and circumstances of that cooperative procurement.
22. Data & Insights Solution Terms. Your use of certain Tyler solutions includes Tyler's Data & Insights data platform. Your rights, and the rights of any of your end users, to use Tyler's Data & Insights data platform is subject to the Data & Insights SaaS Services Terms of Service, available at <https://www.tylertech.com/terms/data-insights-saas-services-terms-of-service>. By signing a Tyler Agreement or Order Form, or accessing, installing, or using any of the Tyler solutions listed at the linked terms, you certify that you have reviewed, understand, and agree to said terms.
23. Twilio Acceptable Use Policy and Terms of Service. Your use of the Tyler Software may include functionality provided by a Third Party Developer, Twilio. Your rights, and the rights of any of your end users, to use said

functionality are subject to the terms of the Twilio Acceptable Use Policy, available at <http://www.twilio.com/legal/aup>, and to applicable provisions found in the current Twilio Terms of Service, available at <https://www.twilio.com/legal/tos>. By signing a Tyler Agreement or accessing, installing, or using any such Tyler solution, you certify that you have reviewed, understand and agree to said terms. Tyler hereby disclaims any and all liability related to your or your end user's failure to abide by the terms of the Twilio Acceptable Use Policy or Terms of Service. Any liability for failure to abide by said terms shall rest solely with the person or entity whose conduct violated said terms.

24. Contract Documents. This Agreement includes the following exhibits:

- Exhibit A Investment Summary
- Exhibit B Invoicing and Payment Policy
Schedule 1: Business Travel Policy
- Exhibit C Service Level Agreement
Schedule 1: Support Call Process

IN WITNESS WHEREOF, a duly authorized representative of each party has executed this Agreement as of the date(s) set forth below.

Tyler Technologies, Inc. _____

By: _____

Name: _____

Title: _____

Date: _____

Address for Notices:

Tyler Technologies, Inc.
One Tyler Drive
Yarmouth, ME 04096
Attention: Chief Legal Officer

By: _____

Name: _____

Title: _____

Date: _____

Address for Notices:

Attention: _____

With a copy to:

Tyler Technologies, Inc.
5101 Tennyson Parkway
Plano, TX 75024
Attention: Legal Department

Exhibit A Investment Summary

The following Investment Summary details the software and services to be delivered by us to you under the Agreement. This Investment Summary is effective as of the Effective Date. Capitalized terms not otherwise defined will have the meaning assigned to such terms in the Agreement.

REMAINDER OF PAGE INTENTIONALLY LEFT BLANK

Exhibit B Invoicing and Payment Policy

We will provide you with the software and services set forth in the Investment Summary of the Agreement. Capitalized terms not otherwise defined will have the meaning assigned to such terms in the Agreement.

Invoicing: We will invoice you for the applicable software and services in the Investment Summary as set forth below. Your rights to dispute any invoice are set forth in the Agreement.

1. **SaaS Fees.** SaaS Fees are invoiced on an annual basis, beginning on the commencement of the initial term as set forth in Section F(1) of this Agreement. Your annual SaaS fees for the initial term are set forth in the Investment Summary. Upon expiration of the initial term, your annual SaaS fees will be at our then-current rates.
2. **Credit for Maintenance and Support Fees.** Client will receive a credit for any prepaid but unused maintenance and support fees payable under the Prior Agreements as of the commencement of the initial term as set forth in Section F(1) of this Agreement.
3. **Professional Services.**
 - 3.1 The implementation and other professional services set forth in the Investment Summary shall be invoiced as delivered.
4. **Third Party Products.**
 - 4.1 *Third Party Software License Fees:* License fees for Third Party Software, if any, are invoiced when we make it available to you for downloading.
 - 4.2 *Third Party Software Maintenance:* The first year maintenance for the Third Party Software, (excluding Esri and Embedded Third Party Software), is invoiced when we make it available to you for downloading.
 - 4.3 *Third Party Hardware:* Third Party Hardware costs, if any, are invoiced upon delivery.
 - 4.4 *Third Party SaaS:* Third Party SaaS Services fees, if any, are invoiced annually, in advance, commencing with availability of the respective Third Party SaaS Services. Pricing for the first year of Third Party SaaS Services is indicated in the Investment Summary. Pricing for subsequent years will be at the respective third party's then-current rates.
5. **Expenses.** The rates in the Investment Summary do not include travel expenses. Expenses will be billed as incurred and only in accordance with our then-current Business Travel Policy. Our current Business Travel Policy is attached to this Exhibit B at Schedule 1. Copies of receipts will be provided upon request; we reserve the right to charge you an administrative fee depending on the extent of your requests. Receipts for miscellaneous items less than twenty-five dollars

and mileage logs are not available.

Payment. Payment for undisputed invoices is due within forty-five (45) days of the invoice date. We prefer to receive payments electronically. Our electronic payment information is available by contacting AR@tylertech.com.

Exhibit B Schedule 1 Business Travel Policy

1. Air Travel

A. Reservations & Tickets

The Travel Management Company (TMC) used by Tyler will provide an employee with a direct flight within two hours before or after the requested departure time, assuming that flight does not add more than three hours to the employee's total trip duration and the fare is within \$100 (each way) of the lowest logical fare. If a net savings of \$200 or more (each way) is possible through a connecting flight that is within two hours before or after the requested departure time and that does not add more than three hours to the employee's total trip duration, the connecting flight should be accepted.

Employees are encouraged to make advanced reservations to take full advantage of discount opportunities. Employees should use all reasonable efforts to make travel arrangements at least two (2) weeks in advance of commitments. A seven (7) day advance booking requirement is mandatory. When booking less than seven (7) days in advance, management approval will be required.

Except in the case of international travel where a segment of continuous air travel is six (6) or more consecutive hours in length, only economy or coach class seating is reimbursable. Employees shall not be reimbursed for "Basic Economy Fares" because these fares are non-refundable and have many restrictions that outweigh the cost-savings.

B. Baggage Fees

Reimbursement of personal baggage charges are based on trip duration as follows:



- Up to five (5) days = one (1) checked bag
- Six (6) or more days = two (2) checked bags

Baggage fees for sports equipment are not reimbursable.

2. Ground Transportation

A. Private Automobile

Mileage Allowance – Business use of an employee’s private automobile will be reimbursed at the current IRS allowable rate, plus out of pocket costs for tolls and parking. Mileage will be calculated by using the employee's office as the starting and ending point, in compliance with IRS regulations. Employees who have been designated a home office should calculate miles from their home.

B. Rental Car

Employees are authorized to rent cars only in conjunction with air travel when cost, convenience, and the specific situation reasonably require their use. When renting a car for Tyler business, employees should select a “mid-size” or “intermediate” car. “Full” size cars may be rented when three or more employees are traveling together. Tyler carries leased vehicle coverage for business car rentals; except for employees traveling to Alaska and internationally (excluding Canada), additional insurance on the rental agreement should be declined.

C. Public Transportation

Taxi or airport limousine services may be considered when traveling in and around cities or to and from airports when less expensive means of transportation are unavailable or impractical. The actual fare plus a reasonable tip (15-18%) are reimbursable. In the case of a free hotel shuttle to the airport, tips are included in the per diem rates and will not be reimbursed separately.

D. Parking & Tolls

When parking at the airport, employees must use longer term parking areas that are measured in days as opposed to hours. Park and fly options located near some airports may also be used. For extended trips that would result in excessive parking charges, public transportation to/from the airport should be considered. Tolls will be reimbursed when receipts are presented.

3. Lodging

Tyler's TMC will select hotel chains that are well established, reasonable in price, and conveniently located in relation to the traveler's work assignment. Typical hotel chains include Courtyard, Fairfield Inn, Hampton Inn, and Holiday Inn Express. If the employee has a discount rate with a local hotel, the hotel reservation should note that discount and the employee should confirm the lower rate with the hotel upon arrival. Employee memberships in travel clubs such as AAA should be noted in their travel profiles so that the employee can take advantage of any lower club rates.

"No shows" or cancellation fees are not reimbursable if the employee does not comply with the hotel's cancellation policy.

Tips for maids and other hotel staff are included in the per diem rate and are not reimbursed separately.

Employees are not authorized to reserve non-traditional short-term lodging, such as Airbnb, VRBO, and HomeAway. Employees who elect to make such reservations shall not be reimbursed.

4. Meals and Incidental Expenses

Employee meals and incidental expenses while on travel status within the continental U.S. are in accordance with the federal per diem rates published by the General Services Administration. Incidental expenses include tips to maids, hotel staff, and shuttle drivers and other minor travel expenses. Per diem rates are available at www.gsa.gov/perdiem.

Per diem for Alaska, Hawaii, U.S. protectorates and international destinations are provided separately by the Department of State and will be determined as required.

A. Overnight Travel

For each full day of travel, all three meals are reimbursable. Per diems on the first and last day of a trip are governed as set forth below.

Departure Day

Depart before 12:00 noon

Lunch and dinner

Depart after 12:00 noon

Dinner

Return Day



Return before 12:00 noon	Breakfast
Return between 12:00 noon & 7:00 p.m.	Breakfast and lunch
Return after 7:00 p.m.*	Breakfast, lunch and dinner

*7:00 p.m. is defined as direct travel time and does not include time taken to stop for dinner.

The reimbursement rates for individual meals are calculated as a percentage of the full day per diem as follows:

Breakfast	15%
Lunch	25%
Dinner	60%

B. Same Day Travel

Employees traveling at least 100 miles to a site and returning in the same day are eligible to claim lunch on an expense report. Employees on same day travel status are eligible to claim dinner in the event they return home after 7:00 p.m.*

*7:00 p.m. is defined as direct travel time and does not include time taken to stop for dinner.

5. Internet Access – Hotels and Airports

Employees who travel may need to access their e-mail at night. Many hotels provide free high speed internet access and Tyler employees are encouraged to use such hotels whenever possible. If an employee's hotel charges for internet access it is reimbursable up to \$10.00 per day. Charges for internet access at airports are not reimbursable.

6. International Travel

All international flights with the exception of flights between the U.S. and Canada should be reserved through TMC using the "lowest practical coach fare" with the exception of flights that are



six (6) or more consecutive hours in length. In such event, the next available seating class above coach shall be reimbursed.

When required to travel internationally for business, employees shall be reimbursed for photo fees, application fees, and execution fees when obtaining a new passport book, but fees related to passport renewals are not reimbursable. Visa application and legal fees, entry taxes and departure taxes are reimbursable.

The cost of vaccinations that are either required for travel to specific countries or suggested by the U.S. Department of Health & Human Services for travel to specific countries, is reimbursable.

Section 4, Meals & Incidental Expenses, and Section 2.b., Rental Car, shall apply to this section.

Exhibit C

Service Level Agreement

I. Agreement Overview

This SLA operates in conjunction with, and does not supersede or replace any part of, the Agreement. It outlines the information technology service levels that we will provide to you to ensure the availability of the application services that you have requested us to provide. This SLA does not apply to any Third Party SaaS Services. All other support services are documented in the Support Call Process.

II. **Definitions.** Except as defined below, all defined terms have the meaning set forth in the Agreement.

Actual Attainment: The percentage of time the Tyler Software is available during a calendar quarter, calculated as follows: $(\text{Service Availability} - \text{Downtime}) \div \text{Service Availability}$.

Client Error Incident: Any service unavailability resulting from your applications, content or equipment, or the acts or omissions of any of your service users or third-party providers over whom we exercise no control.

Downtime: Those minutes during Service Availability, as defined below, when all users cannot launch, login, search or save primary data in the Tyler Software. Downtime does not include those instances in which only a Defect is present.

Emergency Maintenance: (1) maintenance that is required to patch a critical security vulnerability; (2) maintenance that is required to prevent an imminent outage of Service Availability; or (3) maintenance that is mutually agreed upon in writing by Tyler and the Client.

Planned Downtime: Downtime that occurs during a Standard or Emergency Maintenance window.

Service Availability: The total number of minutes in a calendar quarter that the Tyler Software is capable of receiving, processing, and responding to requests, excluding Planned Downtime, Client Error Incidents, denial of service attacks and Force Majeure.

Standard Maintenance: Routine maintenance to the Tyler Software and infrastructure. Standard Maintenance is limited to five (5) hours per week.

III. **Service Availability**

a. Your Responsibilities

Whenever you experience Downtime, you must make a support call according to the procedures outlined in the Support Call Process. You will receive a support case number.

b. Our Responsibilities

When our support team receives a call from you that Downtime has occurred or is occurring, we will work with you to identify the cause of the Downtime (including whether it may be the result of Planned



Downtime, a Client Error Incident, Denial of Service attack or Force Majeure). We will also work with you to resume normal operations.

c. Client Relief

Our targeted Attainment Goal is 100%. You may be entitled to credits as indicated in the Client Relief Schedule found below. Your relief credit is calculated as a percentage of the SaaS fees paid for the calendar quarter.

In order to receive relief credits, you must submit a request through one of the channels listed in our Support Call Process within fifteen days (15) of the end of the applicable quarter. We will respond to your relief request within thirty (30) day(s) of receipt.

The total credits confirmed by us will be applied to the SaaS Fee for the next billing cycle. Issuing of such credit does not relieve us of our obligations under the Agreement to correct the problem which created the service interruption.

Client Relief Schedule	
Actual Attainment	Client Relief
99.99% - 99.50%	Remedial action will be taken
99.49% - 98.50%	2%
98.49% - 97.50%	4%
97.49% - 96.50%	6%
96.49% - 95.50%	8%
Below 95.50%	10%

IV. Maintenance Notifications

We perform Standard Maintenance during limited windows that are historically known to be reliably low-traffic times. If and when maintenance is predicted to occur during periods of higher traffic, we will provide advance notice of those windows and will coordinate to the greatest extent possible with you.

Not all maintenance activities will cause application unavailability. However, if Tyler anticipates that activities during a Standard or Emergency Maintenance window may make the Tyler Software unavailable, we will provide advance notice, as reasonably practicable that the Tyler Software will be unavailable during the maintenance window.

Exhibit C

Schedule 1

Support Call Process

Support Channels

Tyler Technologies, Inc. provides the following channels of software support for authorized users*:

- (1) On-line submission (portal) – for less urgent and functionality-based questions, users may create support incidents through the Tyler Customer Portal available at the Tyler Technologies website. A built-in Answer Panel provides users with resolutions to most “how-to” and configuration-based questions through a simplified search interface with machine learning, potentially eliminating the need to submit the support case.
- (2) Email – for less urgent situations, users may submit emails directly to the software support group.
- (3) Telephone – for urgent or complex questions, users receive toll-free, telephone software support.

** Channel availability may be limited for certain applications.*

Support Resources

A number of additional resources are available to provide a comprehensive and complete support experience:

- (1) Tyler Website – www.tylertech.com – for accessing client tools, documentation, and other information including support contact information.
- (2) Tyler Search -a knowledge based search engine that lets you search multiple sources simultaneously to find the answers you need, 24x7.
- (3) Tyler Community –provides a venue for all Tyler clients with current maintenance agreements to collaborate with one another, share best practices and resources, and access documentation.
- (4) Tyler University – online training courses on Tyler products.

Support Availability

Tyler Technologies support is available during the local business hours of 8 AM to 5 PM (Monday – Friday) across four US time zones (Pacific, Mountain, Central and Eastern). Tyler’s holiday schedule is outlined below. There will be no support coverage on these days.

New Year’s Day	Labor Day
Martin Luther King, Jr. Day	Thanksgiving Day
Memorial Day	Day after Thanksgiving
Independence Day	Christmas Day

For support teams that provide after-hours service, we will provide you with procedures for contacting support staff after normal business hours for reporting Priority Level 1 Defects only. Upon receipt of such a Defect notification, we will use commercially reasonable efforts to meet the resolution targets set forth below.

We will also make commercially reasonable efforts to be available for one pre-scheduled Saturday of each month to assist your IT staff with applying patches and release upgrades, as well as consulting with them on server maintenance and configuration of the Tyler Software environment.

Incident Handling

Incident Tracking

Every support incident is logged into Tyler's Customer Relationship Management System and given a unique case number. This system tracks the history of each incident. The case number is used to track and reference open issues when clients contact support. Clients may track incidents, using the case number, through Tyler's Customer Portal or by calling software support directly.

Incident Priority

Each incident is assigned a priority level, which corresponds to the Client's needs. Tyler and the Client will reasonably set the priority of the incident per the chart below. This chart is not intended to address every type of support incident, and certain "characteristics" may or may not apply depending on whether the Tyler software has been deployed on customer infrastructure or the Tyler cloud. The goal is to help guide the Client towards clearly understanding and communicating the importance of the issue and to describe generally expected response and resolution targets in the production environment only.

References to a "confirmed support incident" mean that Tyler and the Client have successfully validated the reported Defect/support incident.

Priority Level	Characteristics of Support Incident	Resolution Targets*
1 Critical	Support incident that causes (a) complete application failure or application unavailability; (b) application failure or unavailability in one or more of the client's remote location; or (c) systemic loss of multiple essential system functions.	Tyler shall provide an initial response to Priority Level 1 incidents within one (1) business hour of receipt of the incident. Once the incident has been confirmed, Tyler shall use commercially reasonable efforts to resolve such support incidents or provide a circumvention procedure within one (1) business day. For non-hosted customers, Tyler's responsibility for lost or corrupted data is limited to assisting the Client in restoring its last available database.
2 High	Support incident that causes (a) repeated, consistent failure of essential functionality affecting more than one user or (b) loss or corruption of data.	Tyler shall provide an initial response to Priority Level 2 incidents within four (4) business hours of receipt of the incident. Once the incident has been confirmed, Tyler shall use commercially reasonable efforts to resolve such support incidents or provide a circumvention procedure within ten (10) business days. For non-hosted customers, Tyler's responsibility for loss or corrupted data is limited to assisting the Client in restoring its last available database.
3 Medium	Priority Level 1 incident with an existing circumvention procedure, or a Priority Level 2 incident that affects only one user or for which there is an existing circumvention procedure.	Tyler shall provide an initial response to Priority Level 3 incidents within one (1) business day of receipt of the incident. Once the incident has been confirmed, Tyler shall use commercially reasonable efforts to resolve such support incidents without the need for a circumvention procedure with the next published maintenance update or service pack, which shall occur at least quarterly. For non-hosted customers, Tyler's responsibility for lost or corrupted data is limited to assisting the Client in restoring its last available database.
4 Non-critical	Support incident that causes failure of non-essential functionality or a cosmetic or other issue that does not qualify as any other Priority Level.	Tyler shall provide an initial response to Priority Level 4 incidents within two (2) business days of receipt of the incident. Once the incident has been confirmed, Tyler shall use commercially reasonable efforts to resolve such support incidents, as well as cosmetic issues, with a future version release.

*Response and Resolution Targets may differ by product or business need

Incident Escalation

If Tyler is unable to resolve any priority level 1 or 2 defect as listed above or the priority of an issue has elevated since initiation, you may escalate the incident to the appropriate resource, as outlined by each product support team. The corresponding resource will meet with you and any Tyler staff to establish a mutually agreeable plan for addressing the defect.

Remote Support Tool

Some support calls may require further analysis of the Client's database, processes or setup to diagnose a problem or to assist with a question. Tyler will, at its discretion, use an industry-standard remote support tool. Tyler's support team must have the ability to quickly connect to the Client's system and view the site's setup, diagnose problems, or assist with screen navigation. More information about the remote support tool Tyler uses is available upon request.