

6724 Z1 – Revision Two
Attachment C - Technical Requirements

Bidder Name: _____

Technical Requirements Response Instructions

This section provides the bidder instructions for responding to the Technical Requirements herein to be used in their proposals. The definition of each column heading in the requirement table is provided below.

Bidders are instructed to complete their responses to each requirement as described below. The following table provides the definition for and understanding of each of the response options in the requirement tables. In responding to these requirements regarding functions, features, and reporting capabilities, each bidder will be instructed to mark a response box that accurately indicates its current or future ability to provide each requirement. In addition, each bidder will be instructed to explain in detail how and where its solution meets the requirement.

Response Box	Definition
Current Capability/ Configurable Item	Requirement will be met by the proposed NSP MSS solution that is installed and operational in other states and can be demonstrated to NSP.
Future Release	Requirement will be met by a future release of the product.
Custom Development	Requirement will be met by package software currently under development, in beta test, or not yet released.
Not Available	Requirement cannot be provided either as part of the baseline solution, customization, or future release.

For each requirement, in requirement ID order, bidders are to:

1. Place an "X" in the appropriate column in the response form per the definitions above.
2. Provide a detailed explanation for the response to each requirement ID, including a description of the solution's ability to meet the requirement and screenshots (when screenshots are suitable), in the appropriate row in the table.

The **following table provides an illustrative example only** of how the response to each Requirement ID should look:

ID	Requirement	Current Capability/ Config	Future Release	Custom Development	Not Available
MBP-5	The solution shall process batch transactions from local agencies (e.g., processing a group of inquiries on a batch of data items or processing groups of record entries or modifications).	X			
<p>Bidder Response: The message switch is capable of processing batch transactions from local agencies. It supports standard NCIC Batch Inquiry transactions for multiple transaction types, including persons, guns, articles, and vehicles. In addition, it has batch processing capability where any mix of transaction types can be submitted as a single file and run at a specified time.</p>					

NOTE: Each requirement must be responded to in the proposal, or an assumption will be made that bidder cannot accomplish the requirement and/or deliverable.

Business Process

The table below presents the core business process components of the MSS environment and includes the modules necessary to meet business needs such as data query and messaging.

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
Business Process					
MBP-1	<p>The solution shall accommodate changes to existing message keys by NSP administrators and the addition of new message keys as required, specifically allowing NSP administrators to add new, and change existing, message keys without vendor programming assistance.</p> <p>The solution should accommodate changes to existing message keys by NSP administrators and the addition of new message keys as required, specifically allowing NSP administrators to add new, and change existing, message keys without vendor programming assistance.</p>				
Bidder Response:					
MBP-2	The solution shall minimally provide all functionality of the current MSS environment that is summarized in Section V. Project Description and Scope of Work.				
Bidder Response:					
MBP-3	The solution shall provide transaction-level/group user authorization capabilities.				
Bidder Response:					
MBP-4	The solution shall provide a means for real-time, end-user notifications regarding system availability.				

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
	Bidder Response:				
MBP-5	The solution shall process all batch transactions from local agencies (e.g., processing a group of inquiries on a batch of data items or processing groups of record entries or modifications).				
	Bidder Response:				
MBP-6	The solution shall handle message header and destination errors (both user and application) in a consistent manner, with the return of a message that indicates the problem.				
	Bidder Response:				
MBP-7	The solution shall provide editing capabilities by user for correction of errors in data.				
	Bidder Response:				
MBP-8	The solution shall allow users to receive priority messages (to be defined by NSP administrators) first, regardless of what other information is queued.				
	Bidder Response:				
MBP-9	The solution should utilize compression techniques for data, message, and image packets to maximize system performance, including an explanation of the compression method used.				

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
	Bidder Response:				
MBP-10	The solution shall utilize encryption techniques to maximize protection from unauthorized access or monitoring, including an explanation of the encryption technique utilized, as required by the Federal Bureau of Investigation's (FBI's) Criminal Justice Information Services (CJIS) Security Policy.				
	Bidder Response:				
MBP-11	The solution shall accommodate network elements that may already be encrypted at the originating source, including hardware encryption.				
	Bidder Response:				
MBP-12	The solution shall, when appropriate, automatically route National Crime Information Center (NCIC) response transactions to CLEIN for update (e.g., \$ messages).				
	Bidder Response:				
MBP-13	The solution should utilize nonsequential message and response return techniques to improve performance and timeliness of information.				
	Bidder Response:				
MBP-14	The solution shall enable integration with the Peak Performance user certification program.				

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
	Bidder Response:				
MBP-15	The solution shall provide timely updates to NCIC and CLEIN code tables. In no event will these updates take more than 30 days to fully apply after mutual agreement on the scope of the update.				
	Bidder Response:				
MBP-16	The solution should print any of the reports or other outputs at administratively configurable locations/printers (e.g., as an applet or function).				
	Bidder Response:				
MBP-17	<p>The solution shall enable key components of the MSS to be modified by system administrators to meet changing federal and state standards, without the need to contract with a vendor to make changes.</p> <p>The solution should enable key components of the MSS to be modified by system administrators to meet changing federal and state standards, without the need to contract with a vendor to make changes.</p>				
	Bidder Response:				
MBP-18	The solution should support the linking of all responses to the queries that triggered them.				
	Bidder Response:				

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
MBP-19	The solution should enable users to recall a previous hot file entry (recent form, to update as necessary, and to reenter the record as a new entry (frequent reentry of habitual runaways/missing persons, etc.).				
	Bidder Response:				
MBP-20	The solution shall enable users to fill out an on-screen form in the user interface that generates a message switch message in the correct format.				
	Bidder Response:				
MBP-21	The solution should enable users to copy information that has previously been entered (e.g., stolen vehicle broadcast message) so that it may be pasted into another place.				
	Bidder Response:				

Analysis

The table below presents the components required of the NSP MSS solution relative to the use of the data captured for subsequent analytical decision-making, including various types of online and hard copy reporting requirements.

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
Analysis					

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
MAN-1	<p>The solution shall log every inbound and outbound transaction and messaging action. Images should be cited without including the image file in the log, unless specified by the user. Logging should be configurable by MSS administrators.</p> <p>The solution shall log every inbound and outbound transaction and messaging action. Images should be cited without including the image file in the log, unless specifically requested by the user. Logging should be configurable by MSS administrators.</p>				
	Bidder Response:				
MAN-2	The solution shall provide all reports in a format that is viewable on screen.				
	Bidder Response:				
MAN-3	The solution shall provide the capability to print any report. Report formats shall include, but not be limited to Word, Excel, and PDF.				
	Bidder Response:				
MAN-4	The solution shall have online detailed transaction logs for an NSP-configurable period of time, which aligns with NSP retention schedules. The current NSP retention schedule is to keep the current year plus the three previous years in active storage, and an additional year in "cold" storage.				
	Bidder Response:				

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
MAN-5	<p>The solution shall provide the capability to export log data into any of the standard and commercially available software/report packages or formats such as: .xls, .csv, .txt, and eXtensible Markup Language (XML).</p> <p>Bidder Response:</p>				
MAN-6	<p>The solution should provide NSP staff with the ability to create/generate custom or ad hoc reports on any data element in the MSS log, without contractor intervention. The solution should provide the ability to modify report headers, exclude columns, sort by and/or filter on any key data field (including filtering on date range), and save any modified report format for subsequent use.</p> <p>Bidder Response:</p>				
MAN-7	<p>The solution shall provide standardized daily, weekly, and monthly system management and quality assurance reports, modifiable by NSP.</p> <p>Bidder Response:</p>				
MAN-8	<p>The solution should provide the ability to generate NCIC validation reports, on demand and modifiable by NSP.</p> <p>Bidder Response:</p>				
MAN-9	<p>The solution shall have the ability to query the log data based on specific search criteria.</p>				

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
	Bidder Response:				
MAN-10	The solution should provide reports defined by MSS auditors. These standard or ad hoc reports should be made available in real time and authorized via the user provisioning screen.				
	Bidder Response:				
MAN-11	The solution should provide a set of standard system and data reports for message switch operations, regardless of format, minimally including the following: <ol style="list-style-type: none"> 1. List of transaction types (warrants, missing, etc.) for various agencies run over a user-defined period 2. List of all transactions for a certain originating agency identifier (ORI), organized by message key or record type 3. Ability to schedule reports 				
	Bidder Response:				
MAN-12	The solution should produce daily activity reports by operator.				
	Bidder Response:				
MAN-13	The solution should provide access to audit trails for authorized users, based on configurable security roles. These audit logs should come with robust reporting and search tools.				

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
	Bidder Response:				
MAN-14	The solution should be capable of supporting a reporting function that can provide data by reporting jurisdiction.				
	Bidder Response:				

Action and Decision

The table below describes the components required to allow users of the NSP MSS to render business decisions based on the analytical information presented. These decisions have a downstream effect on other system users. For example, notifications can be made to validate information contained in the system prior to enforcement action being taken.

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
Action and Decision					
MAD-1	The solution should assist in enforcement of the “10-minute rule.” Upon receipt of an urgent request for hit confirmation, the entering agency should provide a substantive answer within 10 minutes. If no confirmation is received, the system prompts the sending agency to send a second request to the agency and to the designated state control point. If no response is received within 10 minutes of the second request, a third request is sent to the agency, NCIC, and NSP. If the request is to another state, the control point for that state and NCIC quality control also receive the request.				
	Bidder Response:				

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
MAD-2	<p>The solution should provide a record validation process by which responsible parties are automatically notified in advance of the need to validate within a specific time frame, and when records are deleted, appropriate parties are notified of the deletions.</p> <p>Bidder Response:</p>				
MAD-3	<p>The solution should provide subscription and notification capabilities (e.g., receiving notification that the status of a previous record inquiry has changed).</p> <p>Bidder Response:</p>				
MAD-4	<p>The solution should provide a “watchdog” functionality, whereby an agency/user is notified if another agency/user ran the same switch transaction within a specified time frame (e.g., an officer in a different jurisdiction ran the same license plate query two days prior).</p> <p>The solution should provide a “watchdog” functionality, whereby an agency/user is notified if another agency/user ran the same switch transaction within 30 calendar days (e.g., an officer in a different jurisdiction ran the same license plate query two days prior).</p> <p>Bidder Response:</p>				

Workflow

The table below describes requirements related to the routing, verification, and storage of information in the NSP MSS environment.

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
General Workflow					
MWF-1	<p>The solution shall ensure that administrative messages can be sent or routed to:</p> <ol style="list-style-type: none"> 1. Users and groups of users 2. Agencies and groups of agencies 3. Defined devices 4. Computer interfaces 5. Any of the above within a defined geographic area or defined group 				
Bidder Response:					
MWF-2	<p>The solution shall allow for the maintenance of user-defined, reusable group destination codes or lists of users.</p>				
Bidder Response:					
MWF-3	<p>The solution shall enable configurable routing based on message or transaction type and content. For example, a hit on a wanted person destined for a mobile device is automatically "copied" to a dispatch center device.</p>				
Bidder Response:					
MWF-4	<p>The solution should provide guaranteed message and transaction delivery.</p>				
Bidder Response:					
MWF-5	<p>The solution shall provide for optional message and transaction escalation and alternative delivery. For example, Agency A experiences a power outage, so Agency B is designated to receive Agency A's messages (set by NSP).</p>				

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
	Bidder Response:				
MWF-6	The solution should provide queuing that allows messages and transactions to accumulate for subsequent delivery (guaranteed delivery) in the event of connectivity or system downtime; such queues are to be configurable by NSP by both duration and message type.				
	Bidder Response:				
MWF-7	The solution should allow group queues with the option to delete messages on first read or require that messages be deleted manually.				
	Bidder Response:				
MWF-8	The solution shall allow messages to queue and present the messages based on message priorities.				
	Bidder Response:				
MWF-9	The solution should handle the delivery of all messages and responses from all sources to the appropriate end user. This capability should be table-driven.				
	Bidder Response:				
MWF-10	The message switching application shall have the ability to accurately time- and date-stamp all transactions processed based on the operating system clock.				

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
	Bidder Response:				
MWF-11	The solution should provide a configurable visual and/or auditory mechanism for making users aware that messages or responses have been received.				
	Bidder Response:				
MWF-12	The solution should provide for confidential transaction-processing capability; for example, allow an authorized NSP administrator to designate an inquiry as “confidential” such that subsequent viewing of messages relating to the inquiry/response can be restricted, including writing audit trail information to a confidential or restricted audit log.				
	Bidder Response:				
MWF-13	The solution shall provide the ability for control terminal agency ORIs to utilize ORIs for other agencies for training, diagnostics, or other reasons (i.e. sending and receiving).				
	Bidder Response:				
MWF-14	The solution shall provide the ability to forward unsolicited messages that are sent to a mobile terminal to a non-mobile terminal, in case the mobile terminal is turned off.				
	Bidder Response:				

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
MWF-15	The solution shall provide the ability to manage a "dead letter file" of messages that cannot be successfully delivered.				
	Bidder Response:				

Hot Files

Hot files are formal data stores associated with particular types of common information, including vehicles, guns, persons, and articles. The term originated as a reference to stolen items, but hot file databases have expanded to include information beyond stolen items (e.g., missing persons).

NSP currently maintains hot files locally as part of the CLEIN systems. NCIC maintains a central database of hot file information that typically includes fewer categories than individual states are required to maintain. The individual states provide hot file information to and retrieve information from NCIC.

The NCIC hot files currently maintained by NSP are listed below.

NCIC Hot Files	
<i>People</i>	<i>Items</i>
<ol style="list-style-type: none">1. Wanted Persons2. Missing Persons3. Unidentified Persons4. Supervised Release5. Identity Theft6. Sex Offenders7. Gang Affiliation8. Known or Suspected Terrorist9. Protection Orders10. Foreign Fugitive11. Immigration Violator12. National Instant Criminal Background Check System (NICS) Denied Persons13. Protective Interest14. Violent Person15. Extreme Risk Protection Order (scheduled to be added in 2022)	<ol style="list-style-type: none">1. Vehicle Files2. Boat Files3. Parts Files4. Gun Files5. License Plate File6. Securities Files7. Stolen Article Files

In addition to the NCIC hot files, NSP maintains three local hot files which should be part of the replacement solution:

Nebraska Hot Files
<ol style="list-style-type: none">1. Foreign Petitioner (for protection orders)2. Towed Vehicle3. Infractions Warrant

The table below describes requirements related to collecting, maintaining, and disseminating hot file information. In addition, the table designates each requirement as pertaining to NCIC hot files, Nebraska hot files, or both.

ID	NCIC or Nebraska	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
Hot Files						
HF-1	NCIC	The hot file solution should be compliant with requirements identified in the <i>NCIC 2000 Operating Manual</i> .				
		Bidder Response:				
HF-2	NCIC	The hot file solution should fully support all NCIC 2000 transaction types (e.g., entry, modify, query, cancel, locate).				
		Bidder Response:				
HF-3	NCIC	The hot file solution shall support standard NCIC data exchanges (e.g., National Information Exchange Model [NIEM] XML).				
		Bidder Response:				
HF-4	Both	The hot file solution should provide validation of hot file records.				
		Bidder Response:				
HF-5	Nebraska	The hot file solution should support Nebraska response formats.				
		Bidder Response:				
HF-6	Both Nebraska	The hot file solution should provide robust database search capabilities.				
		Bidder Response:				

ID	NCIC or Nebraska	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
HF-7	Both Nebraska	The hot file solution should include tools that support Nebraska reporting and state and federal audit support requirements.				
		Bidder Response:				

Infrastructure

The table below describes elements that provide technology systems and deliver secure and reliable systems. These elements are primarily hardware and networking components.

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
General Infrastructure					
MIN-1	The solution shall minimally provide the operational capacity of the current MSS environment, as defined in Section V.B of the RFP, including photos.				
	Bidder Response:				
MIN-2	The solution should utilize a system architecture that is open, nonproprietary, and portable.				
	Bidder Response:				
MIN-3	The solution should be adaptive and use extensible architecture for future expansion and scalability without the need for major architectural modifications.				
	Bidder Response:				
MIN-4	The solution should provide system diagnostics and regular, automated reporting, including, but not limited to, error correction and detection.				
	Bidder Response:				

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
MIN-5	The solution shall provide production, test, and training environments. The user's access level should allow him/her to select the system desired.				
	Bidder Response:				
MIN-6	The solution's internal processing time should be one second or less, unless the operation is external to MSS; the bidder should include a description of how the solution will meet this response requirement as well as methods for verification of performance.				
	Bidder Response:				
MIN-7	The hardware should provide the capability for remote maintenance and troubleshooting.				
	Bidder Response:				
MIN-8	There should be no hardware or software/application restrictions limiting the number of users capable of using the MSS.				
	Bidder Response:				
MIN-9	The solution shall be a cloud-based or other similarly hosted solution. Bidders may propose using their own hosting infrastructure or utilize a third-party cloud-hosted infrastructure. For third-party options, Microsoft Azure Government Cloud is preferred.				
	Bidder Response:				

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
MIN-10	<p>The solution shall allow the addition of third-party hardware and software components (e.g., certification application, storage area network [SAN], and network attached storage [NAS]) through open architecture.</p> <p>The solution shall allow the addition of third-party software components (e.g., certification application).</p>				
	Bidder Response:				
MIN-11	<p>The solution should be designed to allow for the addition of capacity to accommodate increases in MSS throughput and workload over a five-year period.</p> <p>The bidder should anticipate a 7.5% annual increase in throughput and workload.</p>				
	Bidder Response:				
MIN-12	<p>The system should be designed to provide fault-tolerant processing.</p>				
	Bidder Response:				
MIN-13	<p>The storage medium used for backup/recovery data should be reusable. The disaster recovery process should utilize the reusable storage medium.</p>				
	Bidder Response:				
MIN-14	<p>The warranty clock shall not start until final acceptance of the MSS solution.</p>				
	Bidder Response:				

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
MIN-15	The solution should be compatible with Internet Protocol (IP) networking standards.				
	Bidder Response:				
MIN-16	The solution should be compatible with Datamaxx Message Processing Protocol (DMPP-2020) and Omnixx Force/OpenFox Markup Language (OFML).				
	Bidder Response:				
MIN-17	<p>The solution should provide Simple Network Management Protocol (SNMP) and the Web-based tool set for centralized control of the system using an enterprise management platform.</p> <p>The solution should provide a Web-based tool set for centralized control of the system using an enterprise management platform.</p>				
	Bidder Response:				
MIN-18	The solution should be compatible with current wired networking standards (e.g., 10 Mb/100 Mb/1 Gb) for NSP.				
	Bidder Response:				
MIN-19	The solution should provide Transmission Control Protocol/Internet Protocol (TCP/IP) version IPv4 addressability for all components throughout the network.				
	Bidder Response:				

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
MIN-20	The solution should recognize addressable agency ORIs.				
	Bidder Response:				
MIN-21	The solution should support the main MSS operations at the primary location and a disaster recovery hot site located at an alternate location.				
	Bidder Response:				
MIN-22	The solution should include a disaster recovery hot site that provides load-balancing and real-time synchronization. The solution should include a disaster recovery hot site that provides real-time synchronization.				
	Bidder Response:				
MIN-23	The primary site and the disaster recovery hot site should each be capable of providing 100% operating capability in the event that one site goes down and is inoperable. The disaster recovery hot site should be operational and active within 1 hour.				
	Bidder Response:				
MIN-24	The solution should provide automated failover in the event that one site goes down and is inoperable.				
	Bidder Response:				
Network					

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
NET-1	<p>The solution shall provide network connectivity from NSP's headquarters to the cloud-based data center primary site and secondary COOP site. This includes connectivity between the primary and COOP as well. The contractor shall be solely responsible for the deployment, management, and payment of any and all and onetime and recurring fees (including ingress/egress, and all other fees) associated with the provision of appropriately secured connectivity over the entirety of the base contract period and extension periods as applicable.</p>				
	Bidder Response:				
NET-2	<p>The solution shall provide a backup VPN service to the cloud-based primary and secondary data centers for use in the event of an outage of the primary circuits. The contractor shall be solely responsible for the deployment, management, and payment of any and all and onetime and recurring fees (including hardware, software, and all other fees) associated with the provision of appropriately secured VPN connectivity over the entirety of the base contract period and extension periods as applicable.</p>				
	Bidder Response:				
NET-3	<p>The solution shall minimally provide double the calculated bandwidth requirements based on historical trend analysis and proposed MSS solution needs. Bidders shall propose bandwidth specifications for all network circuits including the VPN backup for connectivity to/from NSP and the primary and secondary hosting sites as well as any necessary requirements between the primary and secondary sites.</p>				
	Bidder Response:				

Applications

The tables below describe components required of the software systems that ensure operability in the target environment and include software platform, user interface, storage, and data model specifications.

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
Applications					
MAP-1	The solution shall provide at least one simple, easy-to-manage, and inexpensive advanced user authentication strategy, as defined in the CJIS Security Policy.				
	Bidder Response:				
MAP-2	The solution shall provide multilevel security to restrict access and control functionality, in accordance with CJIS Security Policy.				
	Bidder Response				
MAP-3	The solution should provide an administrative or dashboard monitor view of the application and its status.				
	Bidder Response:				
MAP-4	The solution shall afford system administrators the ability to easily update security parameters while the system is online.				
	Bidder Response:				
MAP-5	The solution shall process data in real time. This means that any parameter change, or data change shall be done while the system is online. The change should take effect immediately.				

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
	Bidder Response:				
MAP-6	The solution shall utilize Hypertext Transport Protocol Secure (HTTPS), especially for the user application component.				
	Bidder Response:				
MAP-7	The solution should provide the export or import of system code tables for NSP use with other systems.				
	Bidder Response:				
MAP-8	The solution should utilize application server technology that allows tasks to be off-loaded onto other computers or processors to prevent a loss in performance as system usage grows.				
	Bidder Response:				
MAP-9	The MSS application software shall have a minimum of 12 months of warranty against defects.				
	Bidder Response:				
MAP-10	The MSS application shall use an industry standard programming language.				
	Bidder Response:				

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
MAP-11	The MSS application shall have interactive debugging and trace aids.				
	Bidder Response:				
MAP-12	The MSS application software shall provide fault-tolerant processing.				
	Bidder Response:				
MAP-13	The development environment should include version control and provide source code change tracking. It should also track changes to message switch configurations and program modifications.				
	Bidder Response:				
MAP-14	The solution shall provide NCIC file transfer capability.				
	Bidder Response:				

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
User Interface					
MAP-15	The solution shall allow for the establishment of user accounts and passwords and shall be fully compliant with the guidelines and specifications established in the FBI CJIS Security Policy and NITC Policy.				

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
	Bidder Response:				
MAP-16	The solution shall provide the identification and credentialing of individual users on the local agency interface to MSS for agencies accessing via an HTTPS session.				
	Bidder Response:				
MAP-17	The solution shall allow the system administrator to provide authorization to users to log in to the system, set allowable functions for each user, and reset passwords for users.				
	Bidder Response:				
MAP-18	The solution shall allow users to reset their own passwords.				
	Bidder Response:				
MAP-19	The solution shall allow NSP to define how long a password will remain valid within the secure password attributes established by the current FBI CJIS Security Policy and NITC Policy.				
	Bidder Response:				
MAP-20	The solution shall provide automatic user account deactivation, based on certification date or cancellation by an authorized manager-level command.				

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
	Bidder Response:				
MAP-21	<p>The solution shall utilize user-driven (e.g., user ID, ORI, or combination) security profiles to determine system access to the following:</p> <ol style="list-style-type: none"> 1. "Read" authority. 2. "Add" authority. 3. "Modify" authority. 4. "Delete" access. 5. Each function key for which authority is granted. 6. Each command for which authority is granted. 7. User classification or role. 8. Production (live) or training mode. 				
	Bidder Response:				
MAP-22	<p>The solution shall require users to log on to the system before receiving access to any function. The solution shall generally provide one user sign-on, system-wide with agency associations. This sign-on shall include, at a minimum:</p> <ol style="list-style-type: none"> 1. Agency ID (may be user-specified). 2. A unique user ID and password. 				
	Bidder Response:				
MAP-23	<p>The solution should allow for the ability to change password at setup, at sign-on, and during a logged-in session.</p>				
	Bidder Response:				

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
MAP-24	<p>The solution shall provide a means for users to recall or reset their password using techniques including, but not limited to:</p> <ol style="list-style-type: none"> 1. Forgot My Password techniques used extensively on Internet sites. 2. Challenge questions and answers established during user setup. 3. A temporary complex password if the user successfully answers the challenge question and a required new user password upon successful session sign-on. 4. Ability for the terminal agency coordinator to reset a password if necessary. <p>The solution shall comply with the password standards established by the current version of CJIS Security Policy (v5.9.1).</p> <p>Bidder Response:</p>				
MAP-25	<p>The solution shall be able to be configured such that users are notified of impending password expiration. If a user's password has expired, the system shall prompt the user to change the password at sign-on.</p> <p>Bidder Response:</p>				
MAP-26	<p>The solution should have a single centralized repository for users and their access information (authentication, authorization, and accounting [AAA]) so that users have one username and one set of authentication credentials (such as a password) and so that all user attributes and authorization, including date of entry, are managed in one place. This may be accomplished by using a Lightweight Directory Access Protocol (LDAP) server.</p>				

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
	Bidder Response:				
MAP-27	The solution shall produce an audit trail of all user logon transactions, including password resets, for the direct-connect, HTTPS clients.				
	Bidder Response:				
MAP-28	The solution shall allow for the use of pointing devices, hot keys, key combinations, buttons, and hyperlinks.				
	Bidder Response:				
MAP-29	The solution's client application shall be Web browser-based and utilize best-of-breed Web form design and usability elements.				
	Bidder Response:				
MAP-30	The solution's client application screens should be printable to configurable local or networked printers, using print commands provided by the browser. The solution's client application screens should be able to be captured using commands provided by the browser.				
	Bidder Response:				
MAP-31	The solution shall allow automatic and/or unattended printing of messages as specified.				
	Bidder Response:				

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
MAP-32	<p>The solution should provide value-added features normally associated with a mail system, including:</p> <ol style="list-style-type: none"> 1. Saving draft messages for finalizing and sending at a later time, which should be available to other supervisors/users as authorized in the user profile. 2. Recovering and resending messages at all levels of the system 				
	Bidder Response:				
MAP-33	<p>The solution shall provide a UI with a single primary inquiry form or presentation that includes common inquiries (80% to 100% of all inquiries available).</p>				
	Bidder Response:				
MAP-34	<p>The solution shall provide users with a consistent UI throughout the application, in order to minimize user training and system administration.</p>				
	Bidder Response:				
MAP-35	<p>The solution shall provide a command line, as well as screen entry. Users should be able to enter messages on the command line without affecting operations in the forms or other work area.</p>				
	Bidder Response:				

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
MAP-36	The solution should allow tasks to be entered by keystroke and/or mouse action. However, the system should allow all commands to be initiated by keystroke if desired.				
	Bidder Response:				
MAP-37	The solution shall provide standard UI items, such as drop-down menus, to make selection easier for frequently used fields, such as message keys, all code tables, and agency IDs.				
	Bidder Response:				
MAP-38	The solution should provide functionality for code table lookups to be narrowed down as the user begins to enter data in the code table lookup field.				
	Bidder Response:				
MAP-39	The solution shall allow for automated updates to the UI application.				
	Bidder Response:				
MAP-40	The solution shall utilize prefill fields in appropriate preformatted screens, eliminating redundant data entry without impacting the usability.				
	Bidder Response:				

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
MAP-41	<p>The solution shall provide quick entry methods such as hot keys to minimize the keystrokes required to perform inquiries. Such hot keys would enable the entry of single data inquiries on the command line, and the inquiry would then be executed according to the hot key used. The single data inquiries include, but are not limited to:</p> <ol style="list-style-type: none"> 1. Driver's license number (DLN/OLN). 2. License plate number. 3. Name. 4. Vehicle identification number. 				
	Bidder Response:				
MAP-42	<p>The solution shall provide menus to facilitate access to less frequently used functions and to aid users with applications used infrequently.</p>				
	Bidder Response:				
MAP-43	<p>The solution shall allow users to move forward and backward to complete data fields.</p>				
	Bidder Response:				
MAP-44	<p>The solution shall notify users to correct spelling errors without having to retype the entire field.</p>				
	Bidder Response:				
MAP-45	<p>The solution shall provide users with standard form navigation and allow easy movement from one work area to another via mouse or keyboard.</p>				
	Bidder Response:				

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
MAP-46	The solution shall provide hot keys for frequently used functions (e.g., opening a form template).				
	Bidder Response:				
MAP-47	The solution shall enable users to recall (configurable by NSP) and resend recently sent messages. The solution shall also provide cut-and-paste functionality.				
	Bidder Response:				
MAP-48	The solution should provide default, configurable values for fields based on previous input, referential lookup, or other mechanisms. It should incorporate currently used defaults.				
	Bidder Response:				
MAP-49	The solution should provide the ability to load a Microsoft Word (or similar) file onto the system that is then available as a bulletin to advise of system updates and other information.				
	Bidder Response:				
MAP-50	The solution shall provide lookup tables for valid values for fields.				
	Bidder Response:				
MAP-51	<p>The solution should provide stackable transactions functionality, such as semi-batch processing.</p> <p>The solution should provide stackable transactions functionality, such as batch processing.</p>				

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
	Bidder Response:				
MAP-52	The solution should accommodate access from mobile phone and tablet devices (e.g., Android and iOS). Access can be provided via applications or mobile websites tailored for the mobile browser. If the solution provides this access, the contractor shall work with NSP to identify the common functions of the mobile UI, but NSP does not require a full-feature UI for the mobile user.				
	Bidder Response:				
MAP-53	If the solution accommodates access from a mobile device (MAP-52), the solution should provide mobile device management features for users accessing the solution from a mobile UI.				
	Bidder Response:				

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
Database and Backups					
MAP-54	The solution shall provide an ORI table. The elements within the table shall be configurable by NSP.				
	Bidder Response:				
	The solution should utilize relational database solutions.				

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
MAP-55	Bidder Response:				
MAP-56	The solution shall provide for access to and manipulation of the data (e.g., ORI data) in the database through a standard management system.				
	Bidder Response:				
MAP-57	The solution should provide tools for monitoring and enhancing database organization and performance.				
	Bidder Response:				
MAP-58	<p>The solution should provide tools for database design and development, including documentation, diagramming, normalization, database generation, screen design and generation, report design and generation, and procedure maintenance tools.</p> <p>The solution should provide best practice database design and development, including documentation, diagramming, normalization, database generation, screen design and generation, report design and generation, and procedure maintenance tools.</p>				
	Bidder Response:				
MAP-59	The solution should provide for the development and maintenance of relational database structures for the support of MSS.				
	Bidder Response:				

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
MAP-60	The solution shall have the capability to execute scheduled, unattended online system backups with minimal impact to system performance.				
	Bidder Response:				
MAP-61	The solution shall have the ability to restore from system backups.				
	Bidder Response:				
MAP-62	The solution shall provide robust system backup/archiving tools and strategies.				
	Bidder Response:				

Publication

The table below lists components required to ensure user access to information captured by the desired system and includes such elements as global search engine indexing, report-writing services, data transformation services, and subscription and notification systems.

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
<i>Dissemination and Reports</i>					
MPU-1	The solution should have a report batch monitor that controls the number of reports that may be run at a given time for each server.				
	Bidder Response:				
MPU-2	The solution shall have a report scheduler that can schedule reports to be automatically run at user-defined times.				

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
	Bidder Response:				
MPU-3	The solution shall provide reports, both of real-time and snapshot data, which are publishable.				
	Bidder Response:				
MPU-4	The solution shall provide the ability for authorized end users to retrieve transaction log activity to report on actions and responses for a period of time. The parameters shall be configurable by NSP.				
	Bidder Response:				

Integration

The tables below describe components involved in the exchange of information and images between the MSS and related public safety systems. Specifications here pertain to the interfaces that move information and images between systems at a predetermined time (i.e., batch and/or real-time interfaces).

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
Interfaces					
MIT-1	The solution shall minimally provide the interface and protocol capabilities of the current MSS environment.				
	Bidder Response:				
MIT-2	The solution shall interface with NCIC (including full Interstate Identification Index [III] capability) and provide file transfer functionality.				

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
	Bidder Response:				
MIT-3	The solution shall interface with Nlets – the International Justice & Public Safety Information Sharing Network (including full Interstate Identification Index [III] capability).				
	Bidder Response:				
MIT-4	The solution shall interface with the Nebraska Patrol Criminal History (PCH) system. PCH is the state’s computerized criminal history (CCH) system.				
	Bidder Response:				
MIT-5	The solution shall interface with the proposed hot files solution, in the event that the proposed hot files solution is not already integrated with the proposed message switch solution.				
	Bidder Response:				
MIT-6	The solution shall seamlessly enable all current regional system interfaces to send properly formatted NCIC messages and transactions. This capability shall be in place on the first day of implementation. The current communications protocol for communicating to regional systems is DMPP-2020.				
	Bidder Response:				
MIT-7	The solution shall interface with Nebraska’s Department of Motor Vehicles (DMV’s) Vehicle Title and Registration (VicToRy) server.				
	Bidder Response:				

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
MIT-8	The solution shall interface with the Office of the Chief Information Officer (OCIO) state mainframe for DMV driver's licenses and photos.				
	Bidder Response:				
MIT-9	The solution shall be compliant with, recognize, and allow for data transactions in accordance with the NIEM data model.				
	Bidder Response:				
MIT-10	The solution shall provide transaction-based electronic data access to third-party systems (e.g., DMV, computer-aided dispatch [CAD]) for query/exchange (e.g., Web services, XML, or other transaction-based exchanges).				
	Bidder Response:				
MIT-11	The solution should utilize Web services for information exchanges between interfacing applications.				
	Bidder Response:				
MIT-12	The solution should provide authentication of an electronic report/interface data source.				
	Bidder Response:				
MIT-13	The solution shall have the ability to search multiple (e.g., spawned inquiry transactions) external systems and/or databases via a single query.				
	Bidder Response:				
MIT-14	The solution should have the ability for authorized users to tailor spawned inquiries.				

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
	Bidder Response:				
MIT-15	The solution shall have the ability to receive and respond to queries from authorized external systems and/or databases.				
	Bidder Response:				
MIT-16	The solution should interface with the Nebraska Sex Offender Registry (SOR) database.				
	Bidder Response:				
MIT-17	The solution shall interface with the Mobile Architecture for Communications Handling (MACH) Automatic Vehicle Location (AVL) system.				
	Bidder Response:				

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
Images					
MIT-18	The solution shall save or print images regardless and independent of the response (e.g., if an NCIC response includes an image, the image can be saved and/or printed separately from the rest of the NCIC response).				
	Bidder Response:				
MIT-19	The solution shall process images as defined by NCIC.				

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
	Bidder Response:				
MIT-20	<p>The solution shall provide batch file processing from NCIC (e.g., \$.B).</p> <p>The solution shall provide batch file processing from NCIC (e.g., \$.B), if supported by NCIC NIEM.</p>				
	Bidder Response:				
MIT-21	The solution should access other documents or images stored in a specified repository.				
	Bidder Response:				
MIT-22	The solution should retrieve, and route images stored in various sources.				
	Bidder Response:				
MIT-23	The solution should retrieve, and route other documents or images stored in a specified repository.				
	Bidder Response:				

Management and Administration

The tables below list components associated with the successful management and administration of the MSS technical environment, including system support; applicable standards; and training, documentation, and testing.

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
System Support					
MMA-1	The solution shall continually perform interface connectivity monitoring, hardware self-diagnosis, and self-checking and report errors to the operator console for remedial action.				
	Bidder Response:				
MMA-2	The solution should provide for software upgrades/maintenance that do not affect the production system (no downtime) in a load-balanced environment.				
	Bidder Response:				
MMA-3	The solution shall provide a logging feature that logs entries, changes, and/or deletions to any configuration data (data transaction recovery log).				
	Bidder Response:				
MMA-4	The solution shall be designed to allow for remote maintenance and troubleshooting.				
	Bidder Response:				
MMA-5	The solution shall be able to set date, time, and time zone using the operating system or a time server date and time setting.				
	Bidder Response:				

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
MMA-6	The bidder should provide ongoing services and support, including, but not limited to toll-free 24/7 customer service, annual training classes, an online customer service website, and online software maintenance.				
	Bidder Response:				
MMA-7	To maintain configuration integrity, the solution should provide control for all configurable elements, including auditing, rollback, roll-forward, and configuration change transactions, with the ability to both import and export configurations.				
	Bidder Response:				
MMA-8	The solution shall accommodate changes to production applications without impact to operations.				
	Bidder Response:				
MMA-9	The solution shall provide the ability to designate control terminals.				
	Bidder Response:				
MMA-10	The solution shall be able to account for multiple time zones. The state of Nebraska contains two time zones.				
	Bidder Response:				

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
MMA-11	The bidder shall provide continuous management of all IT components, emphasizing regular, iterative updates and upgrades, ensuring that software and hardware are always up to date. This is the concept known as "evergreen IT."				
	Bidder Response:				
MMA-12	The solution should allow capturing of NCIC lists (e.g., vehicle codes) at the switch, for other systems to download and use.				
	Bidder Response:				

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
Standards					
MMA-13	The solution shall be compliant with all national standards and policies outlined in Attachment B – MSS Operations Plan Specifications, Standards, and Guides <ul style="list-style-type: none"> 1. FBI NCIC 2000. 2. FBI CJIS Security Policy (V5.9), or latest. 3. NIEM. 				
	Bidder Response:				
MMA-14	The solution shall be compliant with the Transportation Security Layer (TLS) 1.2 protocol at the minimum.				
	Bidder Response:				

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
MMA-15	The solution shall meet response time, delivery, and transmittal requirements for NCIC.				
	Bidder Response:				
MMA-16	The solution shall use standard NCIC codes and descriptors.				
	Bidder Response:				

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
<i>Training, Documentation, and Testing</i>					
MMA-17	The solution shall provide access to online system help files (both user and application versions) that describe fields, forms, and data requirements, as well as procedures from system documentation.				
	Bidder Response:				
MMA-18	The solution should provide access to online NCIC manual files that describe fields, forms, and data requirements, as well as procedures and automatic updates.				
	Bidder Response:				

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
MMA-19	The solution should provide access to online Nlets manual files that describe fields, forms, and data requirements, as well as procedures and automatic updates.				
	Bidder Response:				
MMA-20	The solution should provide access to online MSS manual files that describe fields, forms, and data requirements, as well as procedures and automatic updates of MSS manual information by NSP administrators.				
	Bidder Response:				
MMA-21	The solution should provide the ability to query the MSS manual and to allow automated updates by NSP administration.				
	Bidder Response:				
MMA-22	The solution should provide a detailed user-training program and include a syllabus of each class and sample training manual.				
	Bidder Response:				