6724 Z1
Attachment C - Technical Requirements

Bidder Name: Datamaxx Applied Technologies, Inc.

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.

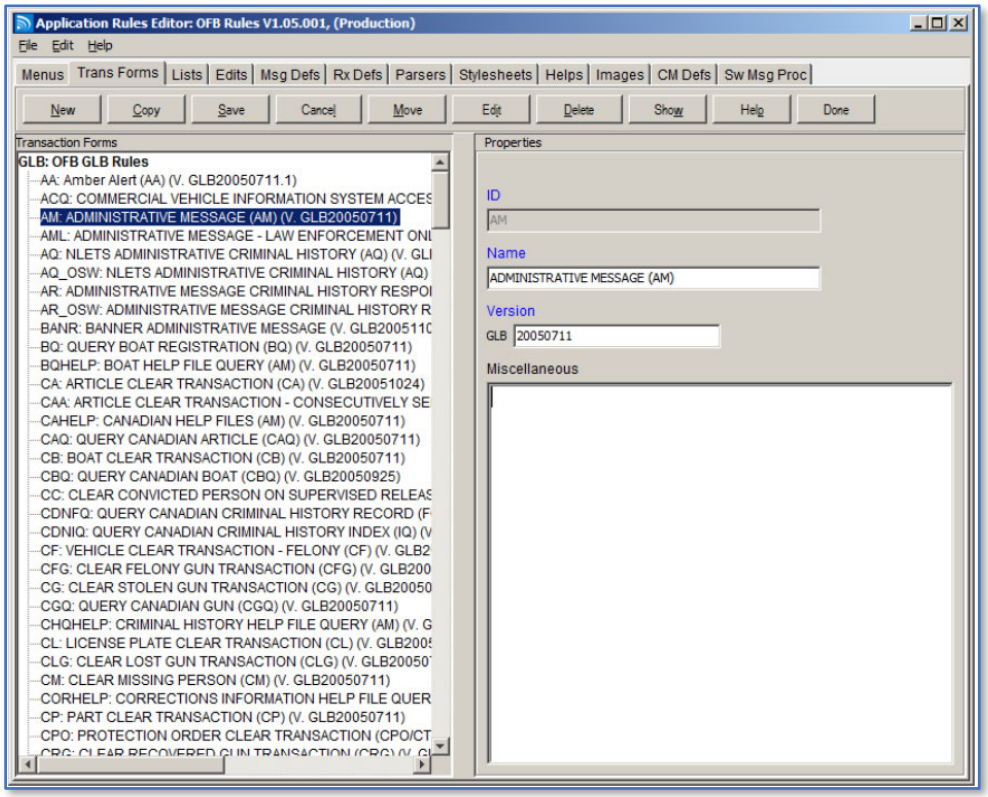
The **following table provides an illustrative example only** of how the response to each Requirement ID should look:

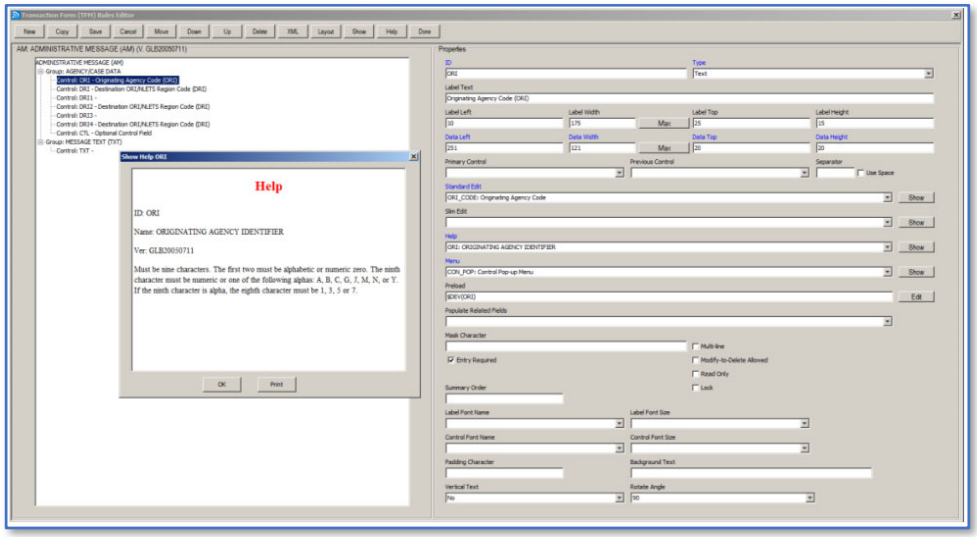
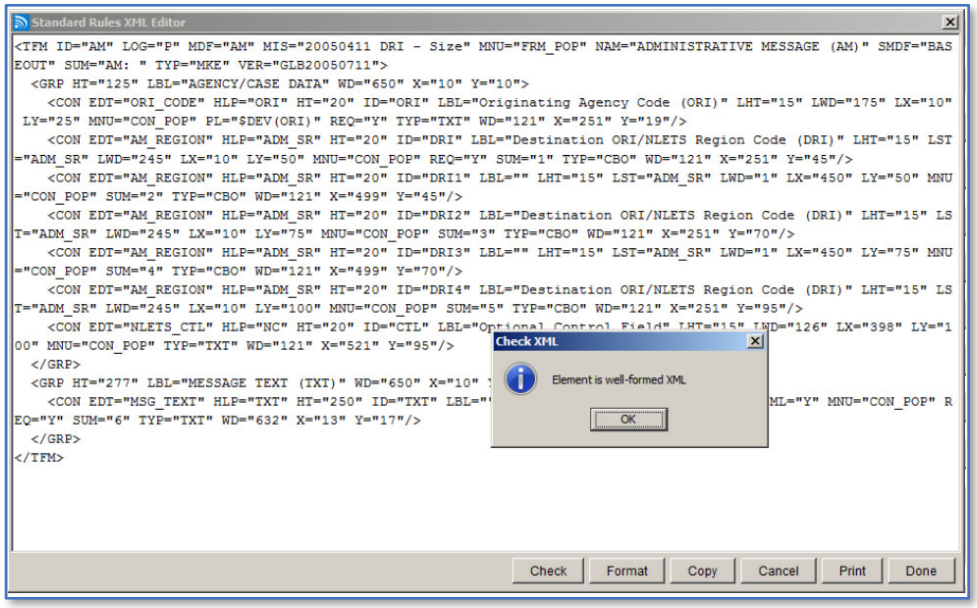
ID	Requirement	Current Capability/ Config	Future Release	Custom Development	Not Available
MBP-5	The solution shall process batch transactions from local agencies (e.g., processing a group of inquiries on a batch of data items or processing groups of record entries or modifications).	**X**			
	Bidder 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.				

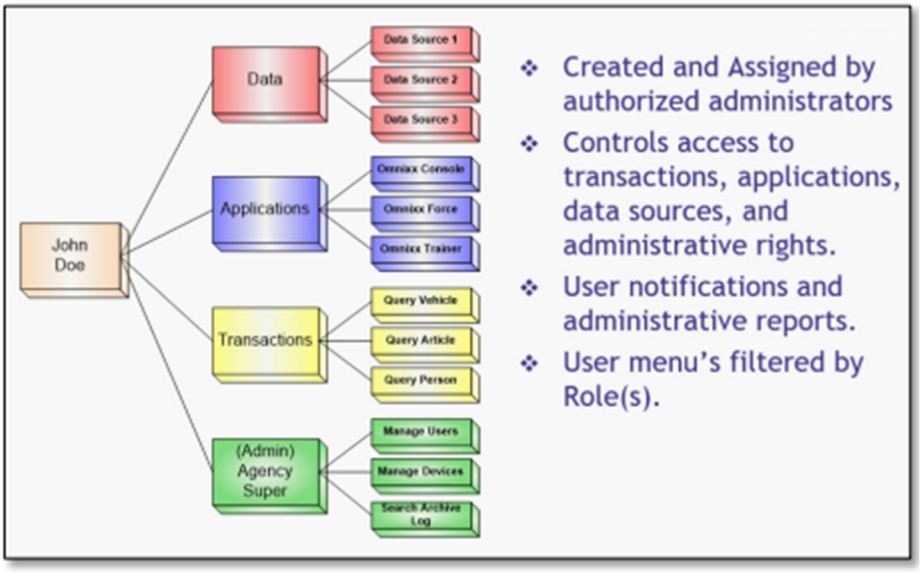
NOTE: Each requirement must be responded to in the proposal, or an assumption will be made that bidder cannot accomplish the requirement and/or deliverable.

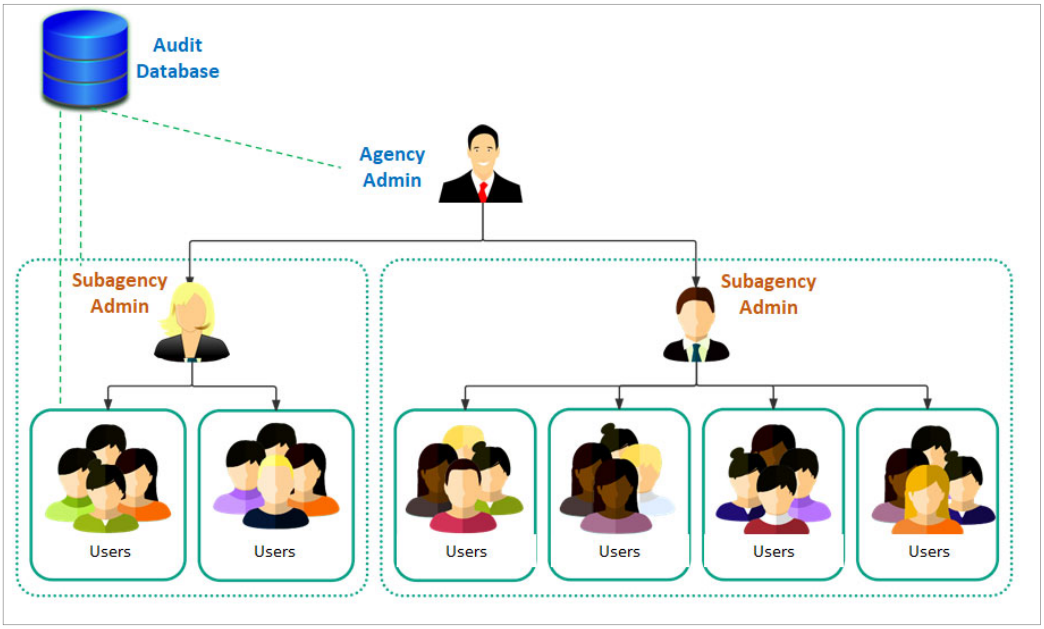
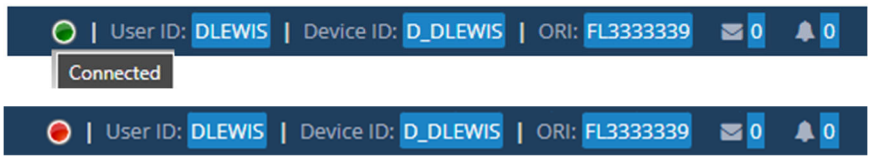
Business Process

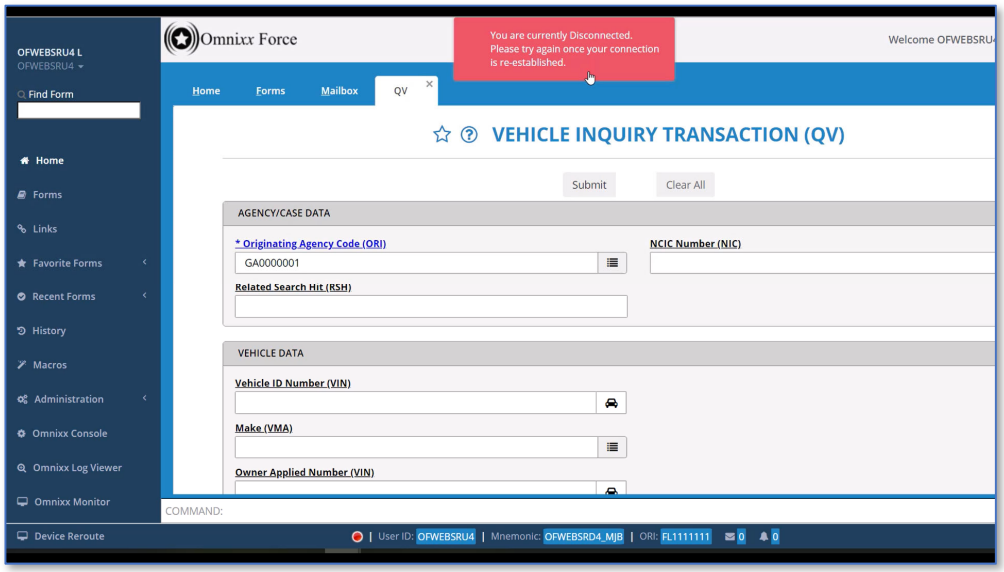
The table below presents the core business process components of the MSS environment and includes the modules necessary to meet business needs such as data query and messaging.

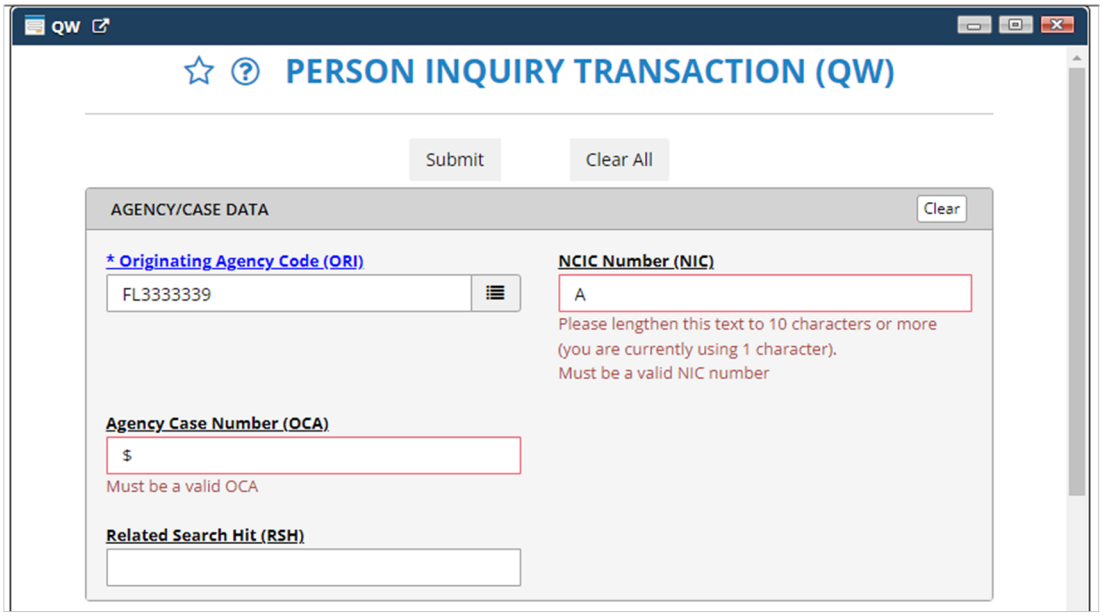
ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
Business Process					
MBP-1	The solution should accommodate changes to existing message keys by NSP administrators and the addition of new message keys as required, specifically allowing NSP administrators to add new, and change existing, message keys without vendor programming assistance.	X			
	Bidder Response: The Omni*xx* Enterprise Platform also provides the tools to make changes to existing message keys and the addition of new message keys by authorized administrators. Transaction Forms and associated components (e.g. code tables, field help, field edits or validations, message processing scripts, stylesheets, etc.) and displays of message keys are defined by "business rules" and are managed using the Omni*xx* Application Rules Editor (ARE) which provides a graphical user interface to manage the XML documents. 				

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
					
					
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.	X			
	Bidder Response: Datamaxx confirms that the proposed solution will minimally provide all the functionality of the current MSS environment, which is the Omni*xx* Enterprise Platform.				
MBP-3	The solution shall provide transaction-level/group user authorization capabilities.	X			

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
	Bidder Response: User roles are configurable in the system, and used to determine the applications, data, transactions, and administrative functions a user has access to, effectively transaction-level / group authorization capabilities. For example, a role can be created named “Query Only”, which provides access to all of the query transactions. Users assigned this role will only have access to the transactions defined in it. Another example, a role named “Full Access” could be created which provides access to all transactions Enter, Modify, Query, Clear, Cancel, and Locate. Users assigned this role will have access to every transactions. Agency administrators are assigned the Super Agency role so that they can access everyone in the agency, and Subagency administrators are assigned the Super Subagency role enabling access only to users in the Subagencies they manage.  Omni*xx* uses role-based privileges to determine the scope of the messages a user may access. • Agency administrators may access all messages from all users. • Subagency Administrators may access all messages from users within the Subagency or Subagencies they manage. • Users may only access their own messages.				

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
					
MBP-4	The solution shall provide a means for real-time, end-user notifications regarding system availability.	X			
	Bidder Response: Omni*xx* Force provides a connection indicator in the status bar, and when disconnected the connection indicator will turn from green to red. New transactions cannot be submitted while disconnected and users will receive a "You are currently Disconnected" notification.  Users can still access the mailbox to review any transactions already received and any responses for the device will be queued at the message switch. Omni*xx* Force will automatically reconnect when the network becomes available again and any messages queued at the message switch will be immediately delivered.				

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
					
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).	X			
	Bidder Response: The Omnixx Enterprise Platform includes a batch interface that can support processing batch transactions from local agencies. It supports the standard NCIC Batch Inquiry transactions, including support for persons, guns, articles, and vehicles. The batch interface supports processing a mix of transaction types in the same file.				
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.	X			
	Bidder Response: There are two (2) aspects to consider when related to errors in headers or destinations. The first involves an error made by a user in addressing a message, to a destination that does not exist. In this case, an error message is returned, indicating that the destination is invalid and allowing the user to make a correction, without re-entering the message content. The second case occurs when the actual routing header is in error, which could be caused by improper data in a header received from an interface agency, or a message with a destination that cannot be determined. The Omnixx Enterprise Platform routes such message to an “intercept” queue or a monitored device for resolution.				

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
	In the case where an error message might cause a “ping pong” effect on the interface, the data source interface can be configured to return a machine error message rather than a human readable message.				
MBP-7	The solution shall provide editing capabilities by user for correction of errors in data.	X			
	Bidder Response: Omni*xx* Force provides editing capabilities on the transaction forms and provides feedback to users as they type to inform them of the requirements for each field. Code tables and other control types are provided to aid the user in entering the correct data in the format required. The edit rules are also part of the business rules defined for each transaction form using the tools provided by the platform’s application rules editor. 				
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.	X			
	Bidder Response: The proposed system provides the ability to set a priority to be set for message delivery, based on the response type and content. The definition and handling of priorities is configurable in the “business rules” for the system.				
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.	X			
	Bidder Response: The Omni*xx* Enterprise Platform employs WinZip compatible compression techniques and JPG Image format to compress application metadata and image packets to				

<table>
<tr><th>ID</th><th>Specification</th><th>Current Capability/ Config</th><th>Future Release</th><th>Custom Development</th><th>Not Available</th></tr>
<tr><td></td><td colspan="5">maximize system performance. The WinZip compatible compression techniques provide an approximate 82% reduction.</td></tr>
<tr><td rowspan="2">MBP-10</td><td>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.</td><td>X</td><td></td><td></td><td></td></tr>
<tr><td colspan="5">Bidder Response: The proposed solution uses FIPS 140-2 validated cryptographic modules to protect data at-rest and in-transit.

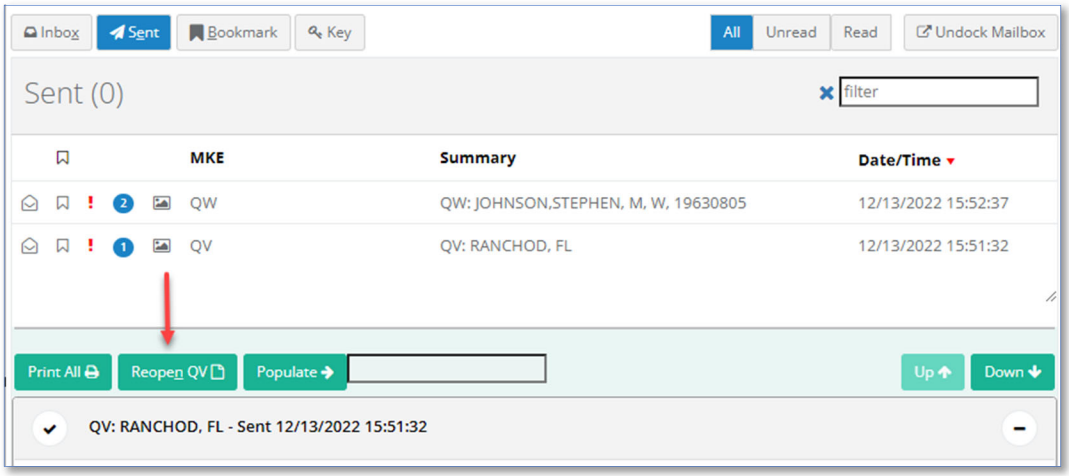
The Omnixx Enterprise Platform operates on Microsoft Windows Servers and have “FIPS mode” enabled. The “FIPS mode” setting on the Microsoft Windows Servers operating system is a kernel level setting the restricts the operating system to only use FIPS approved algorithms for encryption, hashing, and signing operations.

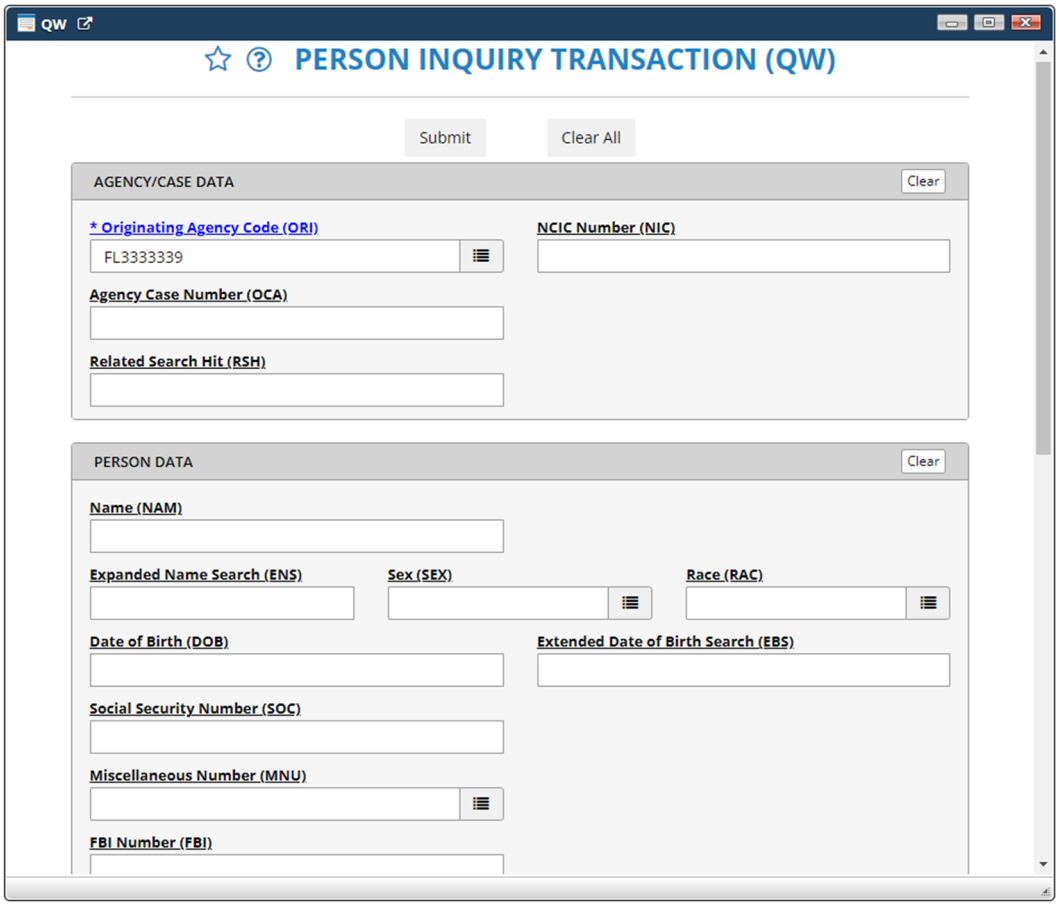
The table below lists the relevant NIST certificates for the respective operating systems.

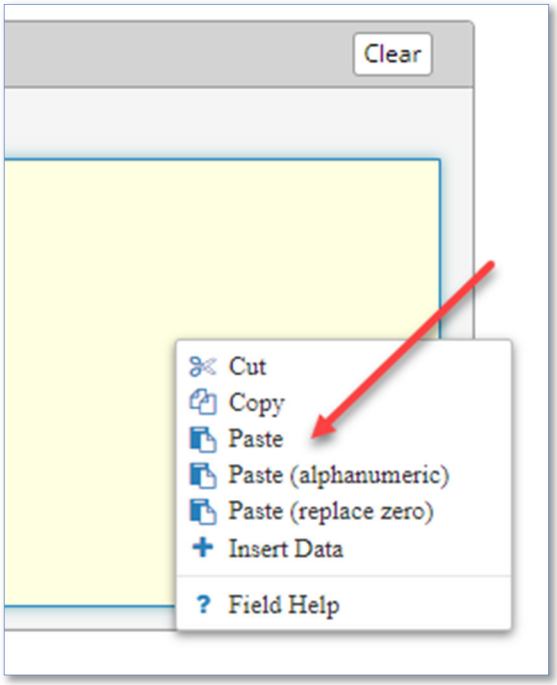
<table>
<tr><th>Vendor & Platform</th><th>Certificate Number(s)</th></tr>
<tr><td>Microsoft Windows Server 2012 R2</td><td>#2356 - https://csrc.nist.gov/projects/cryptographic-module-validation-program/certificate/2356</td></tr>
<tr><td colspan="2">See attached - FIPS140ConsolidatedCertList0053 (Windows 2012R2).pdf</td></tr>
<tr><td colspan="2"></td></tr>
<tr><td>Microsoft Windows Server 2016</td><td>#2936 - https://csrc.nist.gov/projects/cryptographic-module-validation-program/certificate/2936</td></tr>
<tr><td colspan="2">See attached - FIPS140ConsolidatedCertJan2017 (Windows 2016).pdf</td></tr>
<tr><td colspan="2"></td></tr>
<tr><td>Microsoft Windows Server 2019</td><td>#3196 - https://csrc.nist.gov/projects/cryptographic-module-validation-program/certificate/3196</td></tr>
<tr><td colspan="2">See attached - SeptConsolidated2018 (Windows 2019).pdf</td></tr>
</table></td></tr>
<tr><td rowspan="2">MBP-11</td><td>The solution shall accommodate network elements that may already be encrypted at the originating source, including hardware encryption.</td><td>X</td><td></td><td></td><td></td></tr>
<tr><td colspan="5">Bidder Response: All encryption techniques used by the Omnixx Enterprise Edition (Server and Clients) works with all data packets that are handled within the system. Encryption techniques do not interfere with the encryption techniques that may be used for other network elements.</td></tr>
<tr><td>MBP-12</td><td>The solution shall, when appropriate, automatically route National Crime Information Center (NCIC) response</td><td>X</td><td></td><td></td><td></td></tr>
</table>

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
	transactions to CLEIN for update (e.g., $ messages).				
	Bidder Response: The solution currently supports the complete suite of NCIC and Nlets transactions, including those which support the ability to create, modify, locate and clear information contained in NCIC files. For each interface, business rules are created that control the processing of the message, both with regard the initial creation of a message to a data source (*including spawning additional transactions*) and the response from a data source (e.g. NCIC). These rules also extend to asynchronous notification messages (e.g. NCIC "Dollar '$'" notifications and indirect responses (such as State CCH generated "CR" response messages). The business rules allow for a direct delivery to a destination (*as would occur with the results from an NCIC query*) or an indirect delivery (*such as could occur when an NCIC response needs to be sent to another system for further processing, before delivery to an end user*). The added value that the Omni*xx* Enterprise Platform brings to Nebraska State Patrol is that the Data Orchestration piece of the Omni*xx* Enterprise Platform may be invoked in the case where data transformations with XML data are required, such as NCIC and Nlets NIEM.				
MBP-13	The solution should utilize nonsequential message and response return techniques to improve performance and timeliness of information.	X			
	Bidder Response: The Omni*xx* Message Broker (switch) component of the Omni*xx* Enterprise Platform specifically performs in an asynchronous manner, delivering message responses as soon as they are received and in accordance with the business rules set in order to maximize the timeliness and performance of the system. Along with each transaction, a unique non-sequential message number is assigned, enabling transaction requests and response to be correlated, regardless of the order they were received in. The business rules are used to configure the prioritization of a response based upon data source and/or message content. For example, messages that contain "hits", such as "MKE/WANTED PERSON" or "MKE/STOLEN VEHICLE" can be assigned the highest priority in order to ensure they are delivered first.				
MBP-14	The solution shall enable integration with the Peak Performance user certification program.	X			
	Bidder Response: The Omni*xx* Enterprise Platform supports a "Training & Certification" API that can be used to integrate Peak Performance's NexTEST training solution. Peak has already integrated in the Omni*xx* Platform using this API and is running in production in several statewide and federal implementations using the same proposed solution (the *Omnixx Enterprise Platform*).				
MBP-15	The solution shall provide timely updates to NCIC and CLEIN code tables. In no event will these updates take more than	X			

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
	30 days to fully apply after mutual agreement on the scope of the update.				
	Bidder Response: The Omni*xx* Enterprise solution includes the Application Rules Editor to mange updates to message keys, code tables, help files, field edits, transaction definitions, etc., collectively known as "business rules". Each rule is versioned stamped so that client applications can keep the current rules in sync with changes made at the server, without user intervention. Updates are made centrally, by using the Application Rules Editor, and are versioned with each change. When changes are detected, differential updates are performed, where only the changes or new versions are synchronized. This is automatic; does not require user intervention, and is completely controlled by authorized administrators. These techniques are used for all updates, including NCIC, Nlets, and State transaction elements and code tables. Datamaxx will coordinate with Nebraska State Patrol to apply updates within 30 days after mutual agreement on the scope of the update.				
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).	X			
	Bidder Response: The Omni*xx* Enterprise Platform allows for automatic printing of messages identified by System Administrators with printers identified as targets. In addition, the client application, Omnixx Force, provides automatic and unattended printing capabilities.				
MBP-17	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.	X			
	Bidder Response: The Omni*xx* Enterprise Platform provides an administrative interface that enables system administrators to manage all aspects of the Control Agency Switch. Additionally, the changes that occur as a result of changing federal and state standards are met within Omni*xx* Enterprise through the use of business rules that do not affect the core application software. The business rules can be modified by state administrators without needing to contact Datamaxx for software updates.				

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
MBP-18	The solution should support the linking of all responses to the queries that triggered them.	X			
	Bidder Response: The Omni*xx* Enterprise Platform generate a unique reference identifier when sending transactions, and uses the unique reference identifier to link all responses to the queries that triggered them.				
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.).	X			
	Bidder Response: Omni*xx* Force provide the capability to recall any entry, including hot file entries from their Sent box or History search results screen. When selected, the original transaction will be opened and the fields populated with the original entries. Users may resubmit or make changes and then submit. The screenshot below shows the Sent box, and the “Reopen” command, which is used to re-open the original transaction. 				
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.	X			
	Bidder Response: Omni*xx* Force provides on screen transaction form that a user fills out and submits. Then, the message switch uses a corresponding message script to generate the appropriate transactions (including spawned transactions).				

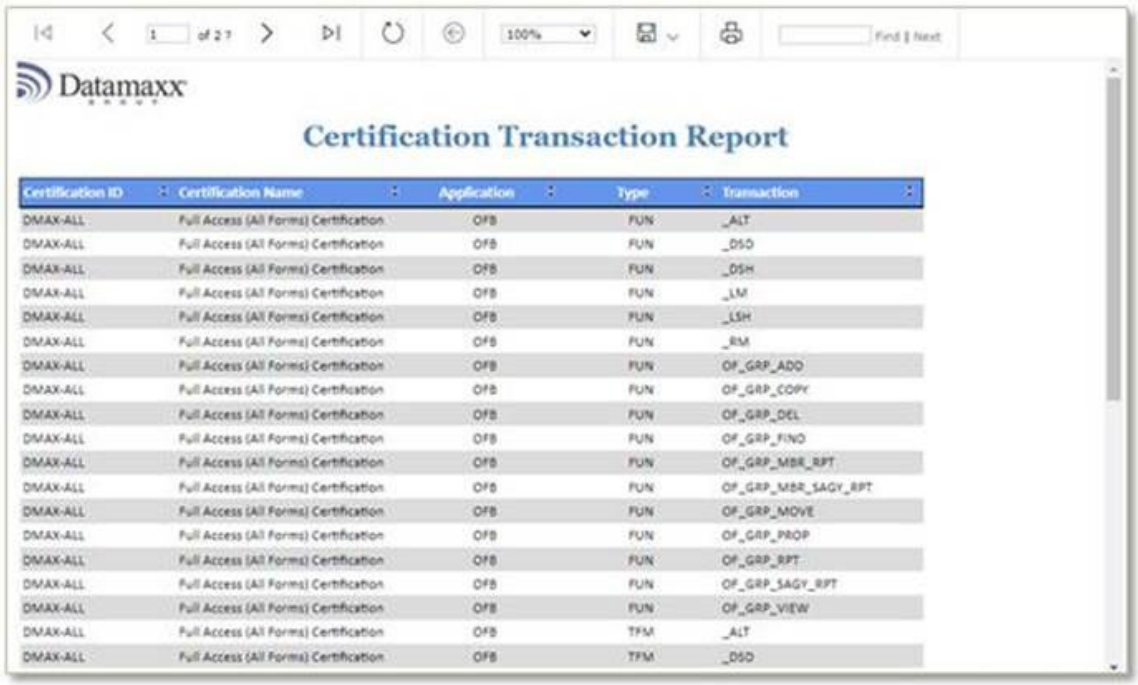
ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
	The arrangement of the fields on the transaction form does not affect the order of the transactions, as the message script is able to parse and arrange the transaction in the format required by the destination system. The following screenshot depicts a typical Query Wanted transaction. The transaction forms and associated components (*field name, field requirements, code tables, etc.*) are managed by the business rules editor provided with the solution. New transaction formats and updates to existing transaction formats are easily applied by authorized administrators. 				
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.	**X**			
	Bidder Response: Omni*xx* Force supports standard copy and paste features. In addition to the standard paste feature, Omni*xx* Force also supports “alphanumeric” Paste, which remove non-alphanumeric characters when pasting, as well as the “replace zero” Paste which replaces the numeric zero “0”, found in many NCIC responses, with the letter “O” when pasting.				

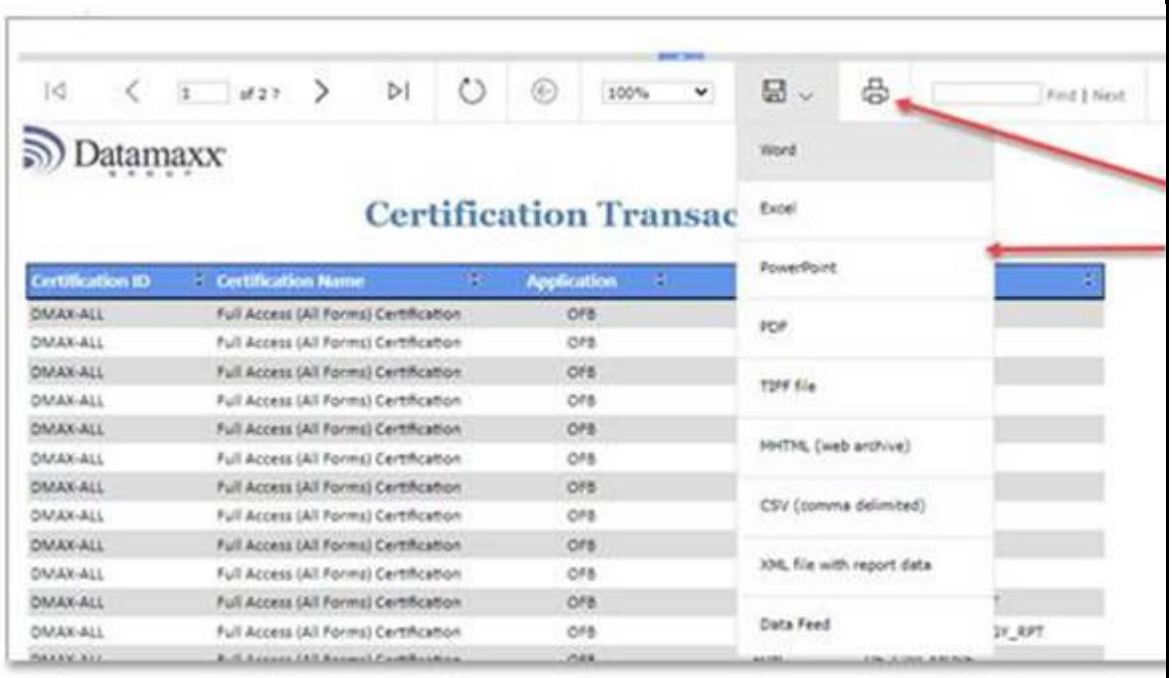
ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
					

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					
MAN-1	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.	X			
	Bidder Response: The Omni*xx* Enterprise Platform stores all significant events including all inbound and outbound transactions, changes in session state (e.g. logons, logoffs, etc.), failed delivery attempts, changes to interface status, and typical message switch events. All events are time-stamped and stored with associated data including device, user, MKE, and ORI.				

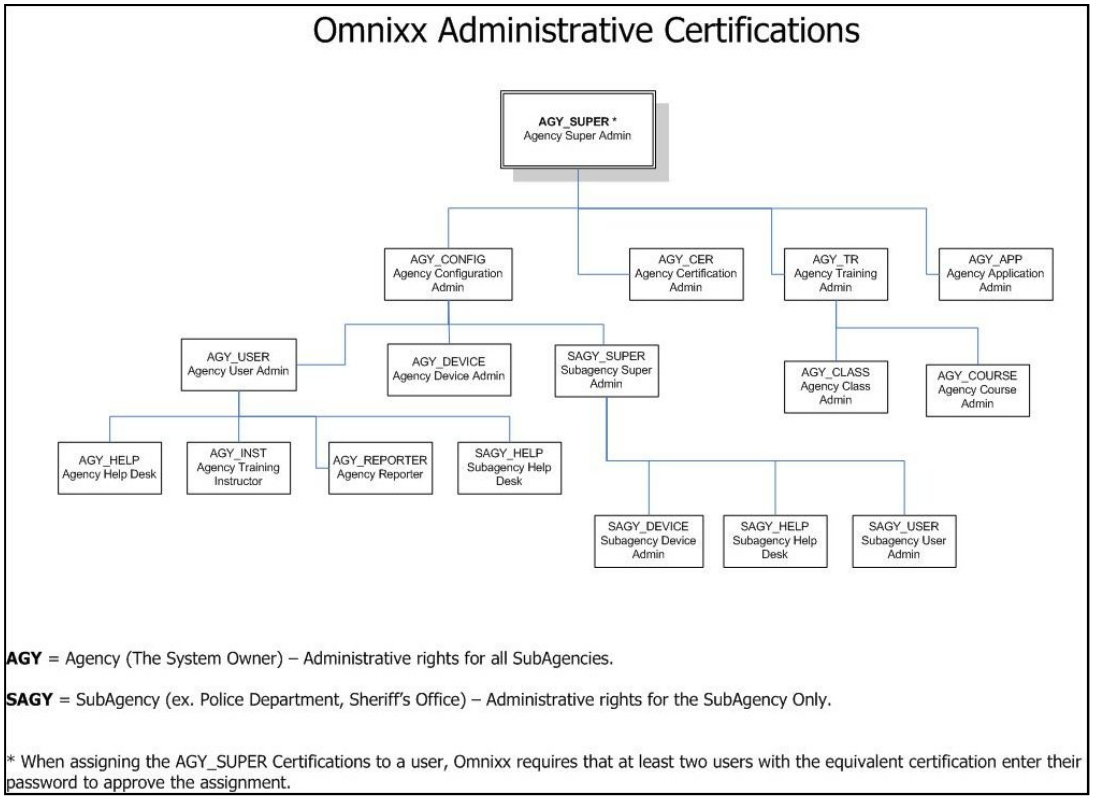
ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
	Images may be cited without including the image in the log via a configuration option to not log images associated with a message unless specified by the user to do so. An optional system generated citation can be placed in lieu of the image to indicate image removal if desired. The Omni*xx* Enterprise Platform provides several configuration options for logging including the interval of when events are moved to the archive, retention periods for transactions that must be purged based upon statue (e.g. Brady Bill transactions), and the ability to configure certain fields to be left out of the archive, all of which are available to the MSS administrators.				
MAN-2	The solution shall provide all reports in a format that is viewable on screen.	X			
	Bidder Response: The Omni*xx* Enterprise Platform integrates with Microsoft SQL Server Reporting Services. Any Omni*xx* user with the appropriate permission level may generate reports that are viewable online, and made available for printing using standard Windows Server print utilities. The screenshot below depicts a viewable online report.  				
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.	X			
	Bidder Response: Authorized users can print or export reports by selecting the **Print** or Export command from the toolbar.				

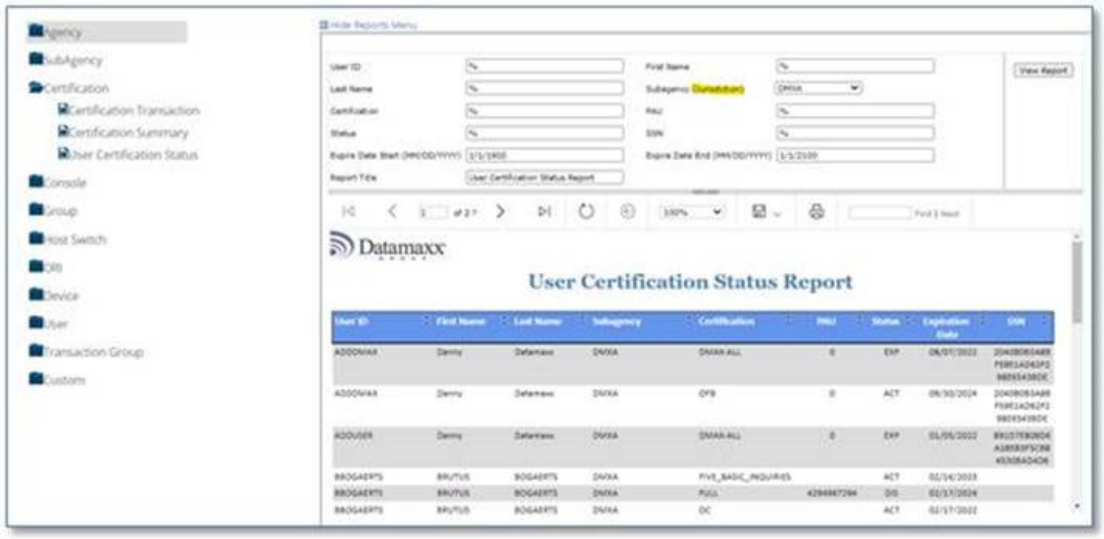
ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
	Word, Excel, & PDF export format are supported and additional export formats are also supported including, PowerPoint, CSV, MHTML, and XML. 				
MAN-4	The solution shall have online detailed transaction logs 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.	X			
	Bidder Response: The Omni*xx* Enterprise Platform includes an Archive & Retrieval system for long-term storage and the ability to search, display and generate reports. The "Event Log Archive" is stored in a Microsoft SQL server database with indexes and tag fields to provide fast search results for commonly used fields such as MKE, Name, SSN, and VIN. Events are stored immediately in an online "Event Log" and remain there for a configurable period of time as determined by the administrator (typically a few days) and then transferred to the "Event Log Archive" where they remain for a configurable period of time (typically a number of years). The "Event Log Archive" Search Tool provides the ability to perform searches by key fields such as user, agency, ORI, and date/time. Additionally "free text" searches are supported for keywords or phrases in the message summary or body.				
MAN-5	The solution shall provide the capability to export log data into any of the standard and commercially available software/report packages or formats	X			

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
	such as: .xls, .csv, .txt, and eXtensible Markup Language (XML).				
	Bidder Response: The “Event Log Archive” is stored in a Microsoft SQL Server Database which provides a robust tool for importing and exporting data called the “SQL Server Import and Export Wizard”. This tool allows the choice of data source types when exporting including “.xls”, “.csv”, “.txt”, and “xml”. The following is a brief description.				
MAN-6	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 forsubsequent use.	X			
	Bidder Response: As described above, the proposed solution is tightly integrated with Microsoft SQL Server Reporting Services, which enables authorized users to generate ad-hoc reports and the ability to generate completely custom reports, including the ability to modify report headers, exclude columns, sort by and/or filter on any key data field, and save any modified report format for subsequent use.				
MAN-7	The solution shall provide standardized daily, weekly, and monthly system management and quality assurance reports, modifiable by NSP.	X			
	Bidder Response: The Omni*xx* Enterprise Platform employs SQL Server Reporting Services which are used to schedule and provide daily, weekly, and monthly system management and quality assurance reports. The following is a sampling of standard reports included with the proposed solution. These reports can be easily modified or new ones created by using the SQL Server Reporting Services Tools described in requirement AN-5. MKE by Device - summarizes the number of each MKE sent by each Device. MKE by User - summarizes the number of each MKE sent by each User. MKE by ORI - summarizes the number of each MKE sent by each ORI. Interface Maintenance Report - summarizes when each interface was started or stopped. MKE by Switch-Host Interface Report - summarizes the number of each MKE sent to host interfaces (e.g. NCIC, Nlets, and DMV). Hourly Distribution Report - Summarizes the number of inputs; output and total bytes; and input and output of total messages sent and received over each interface by hour of day. Omni*xx* Switch Summary - displays the address, interface connections, and status of the Omni*xx* Message Broker.				

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
	The reports can be generated on demand or scheduled, and can be modified by NSP.				
MAN-8	The solution should provide the ability to generate NCIC validation reports, on demand and modifiable by NSP.	X			
	Bidder Response: The proposed solution supports NCIC record validations from client workstations that provide notifications to users for records that need to be validated, and an easy to use interface to review and validate the records. The reports can be generated on demand or scheduled, and can be modified by NSP using SQL Server Reporting services.				
MAN-9	The solution shall have the ability to query the log data based on specific search criteria.	X			
	Bidder Response: The Omni*xx* Enterprise Platform maintains a detailed audit log of each transaction processed. These audit logs are stored in the Omni*xx* Enterprise Platform database files and are available for searching and reporting (by system users with the appropriate security level), as required by NCIC and NIets.				
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.	X			
	Bidder Response: Many of the standard reports with the appropriate filtering, such as time span, details (text search), jurisdiction, etc. are core capabilities of the Omni*xx* Enterprise Platform and will support the needs of MSS auditors “out-of-the-box”. Additionally, ad hoc reports can be generated on demand or scheduled using SQL Server Reporting services.				
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: 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	X			
	Bidder Response: 1. The Omni*xx* Enterprise Platform System Administrator includes a “transactions by MKE” report which addresses the transaction types for selected agencies over a defined period of time.				

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
	2. The Omni*xx* Enterprise Platform provides a report functionality that allows an authorized administrator to create a report of all transactions for an agency organized by message key or record type. The format of the report is HTML for maximum flexibility of use and can be saved, printed or emailed. 3. Datamaxx acknowledges and complies with this requirement. The Omnixx Enterprise Platform Console provides the ability to schedule reports.				
MAN-12	The solution should produce daily activity reports by operator.	X			
	Bidder Response: The Omni*xx* Enterprise Platform uses SQL reporting tools to create and establish the timing for any custom reports required. These reports can be created one time or scheduled for any time interval, including daily activity reports by operator. Each report is defined by a model (data, format, structure). Once the model is established, the report can be set to run automatically or on demand by users and administrators with appropriate permissions.				
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.	X			
	Bidder Response: The Omni*xx* Enterprise Platform provides logging and auditing for all transactions and utilities to search, display, and print the logs. In addition, administrative changes are also logged, tracking user logons/logoffs, user account changes (e.g. permissions, password changes), device changes, etc. The Omnixx Enterprise Platform provides robust support for configurable security roles (known as certifications) including limiting access to audit trails to authorized users and limiting access to data within the log. For example, the chart below displays the hierarchy of administrative certifications employed by the Omni*xx* Enterprise Platform. The data in the audit log a user access is determined by their certification (or role). This will determine if you have full access (entire log) or limited access (for a specific user, agency, or ORI). Robust search and reporting tools are provided, making it easy to analyze log data and generate informative and statistical reports.				

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
					
MAN-14	The solution should be capable of supporting a reporting function that can provide data by reporting jurisdiction.	X			
	Bidder Response: The Omni*xx* Enterprise Platform utilizes SQL Server Reporting Services and provides a variety reports as part of the solution. The reports provide a variety of filters, *including a filter for reporting jurisdiction*, for ad-hoc reporting as well as the ability to schedule reports for delivery. Reports can be customized or new reports can be created using SQL Server Reporting tools.				

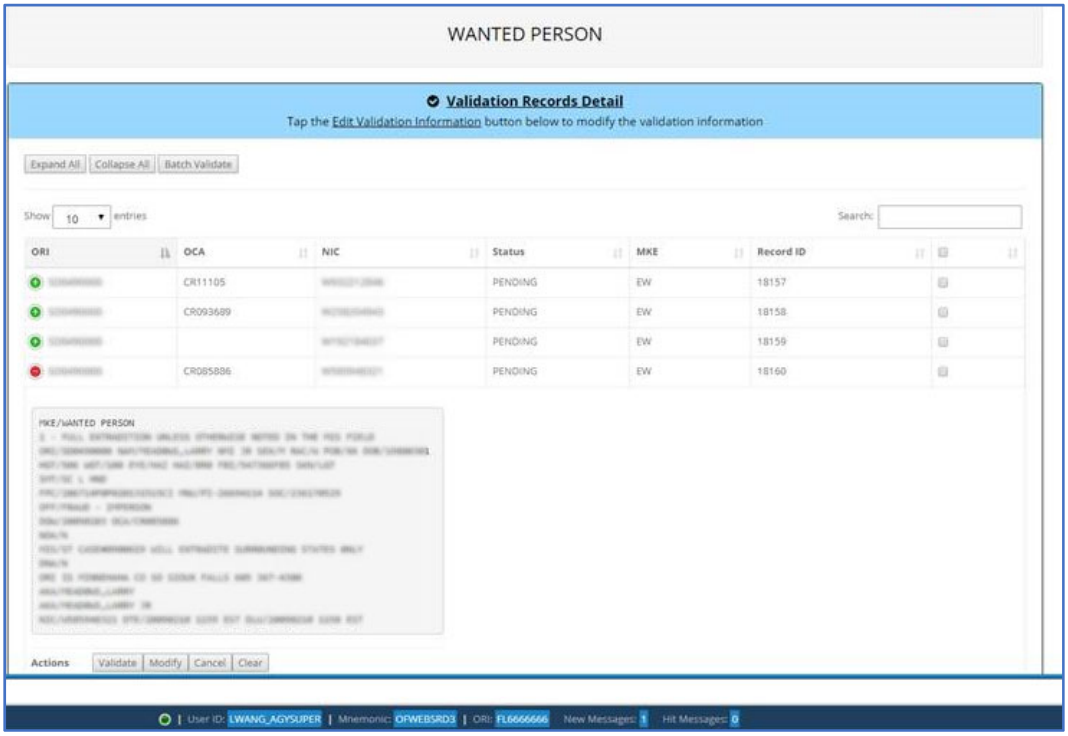
ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
					

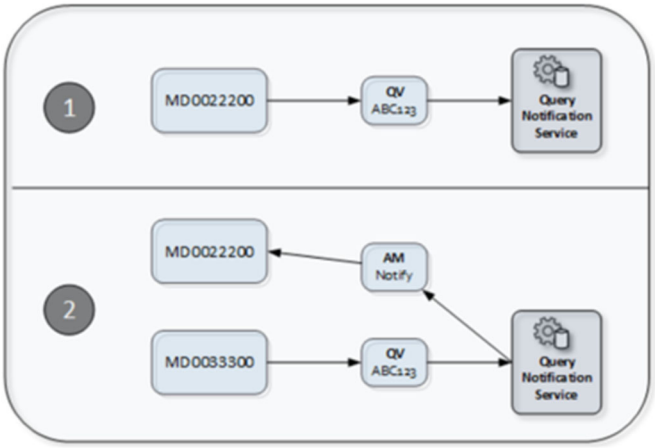
Action and Decision

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.	X			

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
	Bidder Response: The 10-Minute Rule that prompts an entering agency to provide a substantive answer to a request for a hit confirmation is a core capability of the Omni*xx* Enterprise Platform. Following a rules pattern established by the administrators, if no confirmation is received within the 10 minutes, the system will send another request to the agency and to a designated state control point. If there is still no response after the second attempt, a third request is sent to the agency, NCIC and NSP. If the request is to another state, the control point for the state and NCIC Quality control will also receive a request. These rules and the specific delivery points can be established and managed through Business Rules so that no changes to the application code are required to establish, maintain or change the destinations.				
MAD-2	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.	X			
	Bidder Response: The Omni*xx* Force end user interface supports record validations, using an integrated process where record owners receive records to validate monthly. Omni*xx* Force provides a user friendly interface to track and perform validations, and includes periodic reminders to ensure record owners provide timely record validations to prevent NCIC from removing the records for not being validated in according to NCIC policy. The screenshot below depicts a sample set of record to validate. The records, grouped by type as shown in the top pane. When a group is selected, the detail records are displayed in the bottom pane. Users can review the records and then simply click the Validate button to complete the validation, or the Modify, Cancel, or Clear button to display the appropriate transaction form to be completed by the operator.				

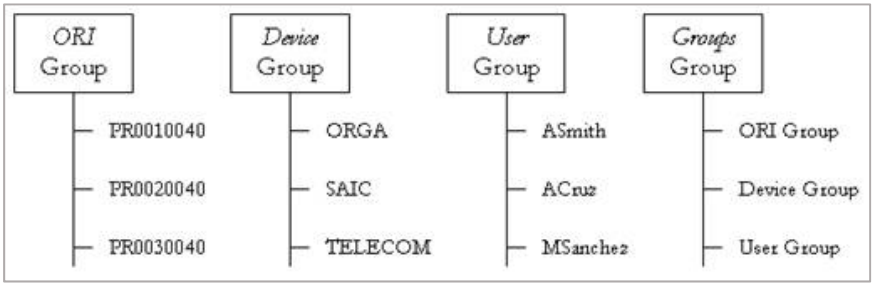
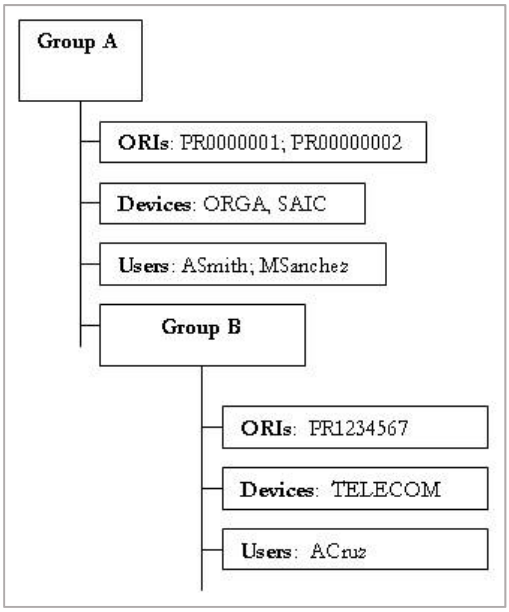
ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
					
MAD-3	The solution should provide subscription and notification capabilities (e.g., receiving notification that the status of a previous record inquiry has changed).	X			
	Bidder Response: The Omnixx Enterprise Platform includes a service modules for inspecting transaction traffic and providing notifications. The Omnixx Message Monitor Service allows an administrator to set an indicator that monitors message traffic and upon the detection of certain data string in the messages can notify a user that such data was detected so they may take action. The configuration is soft-set for data strings to search and notification destinations.				
MAD-4	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).	X			
	Bidder Response: The Omnixx Enterprise Platform includes a service module known as the "Query Notification Service" which sends an Administrative Message (AM) to the originating ORI when a match is confirmed for the corresponding data elements for a specific MKE.				

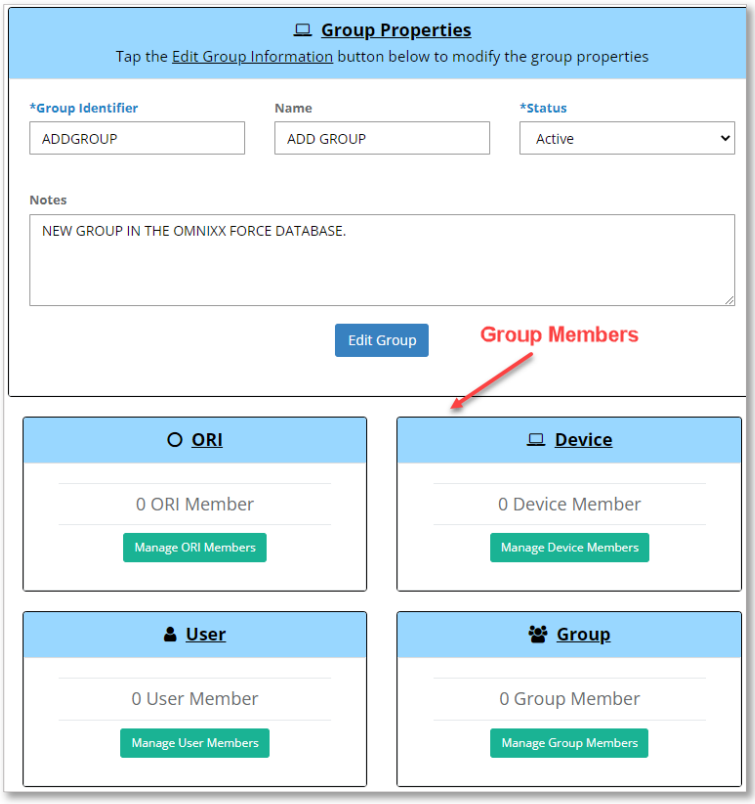
ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
	The following example demonstrates a typical workflow. This is the default configuration for the Query Notification Service. The transaction matrix and match fields are table-driven and can be adjusted. ORIs in the example are fictional and meant for illustrative purposes only. 1 – Initial Query from Origination ORI 2 – Subsequent Query with matching parameters from a different ORI and notification to the original ORI. 				

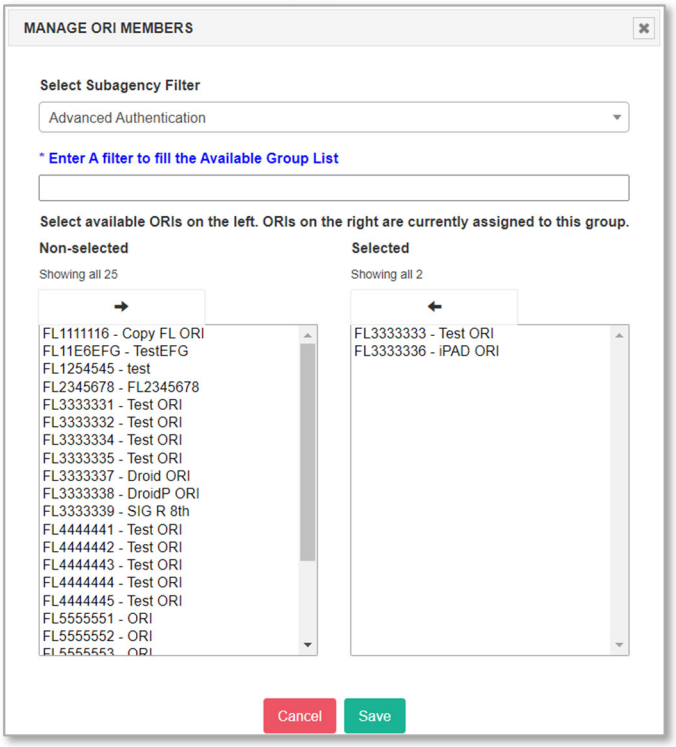
Workflow

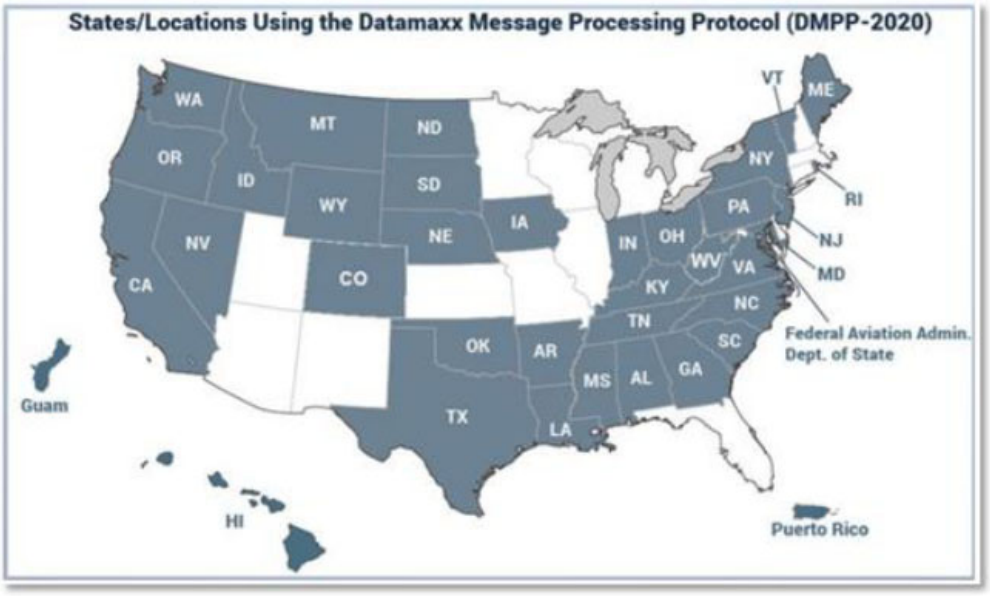
The table below describes requirements related to the routing, verification, and storage of information in the NSP MSS environment.

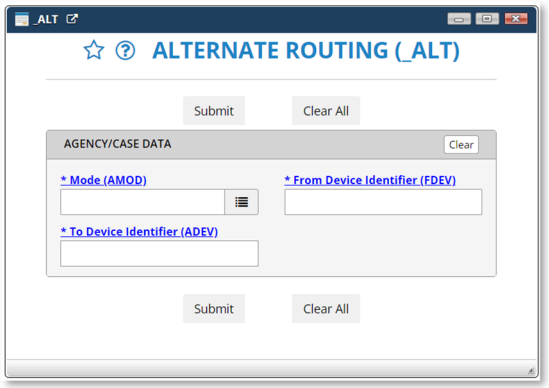
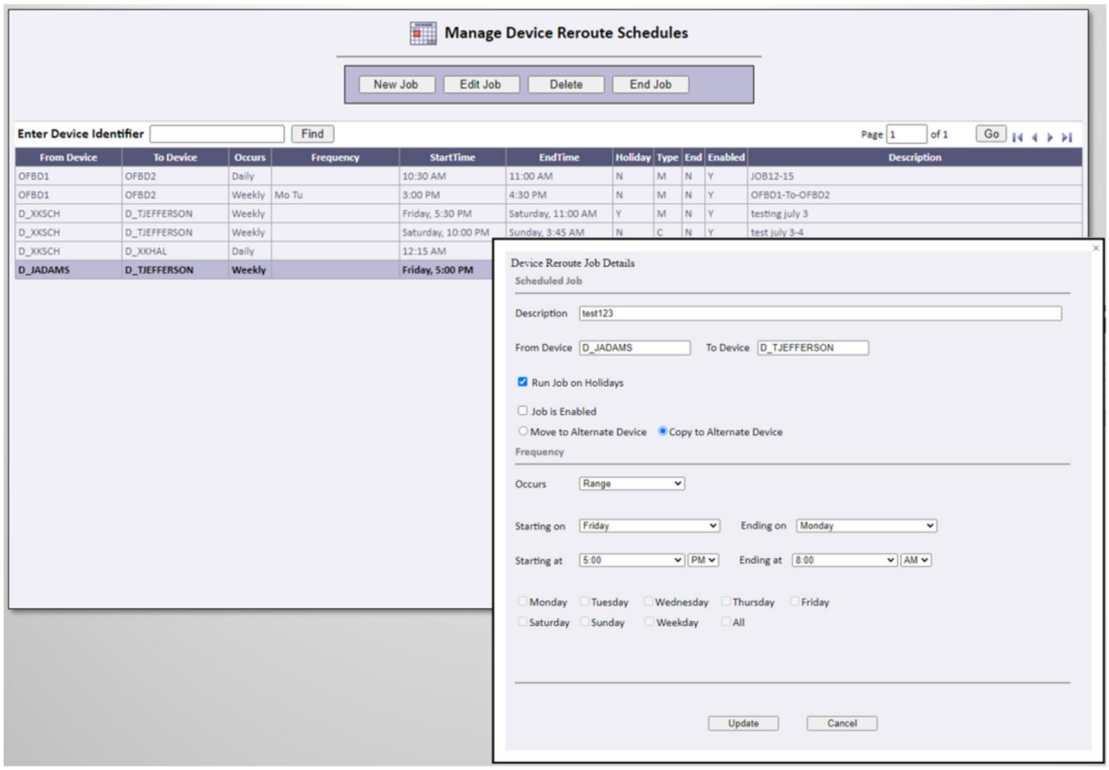
ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
General Workflow					
MWF-1	The solution shall ensure that administrative messages can be sent or routed to: 1. Users and groups of users 2. Agencies and groups of agencies 3. Defined devices 4. Computer interfaces 5. Any of the above within a defined geographic area or defined group	X			
	Bidder Response: The proposed solution has full handling of for Users, Agencies, Defined Devices and Computer Interfaces as well as grouping of all of the above.				

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
	Messages destinations for administrative messages are managed by configurable business rules, with capabilities that meet this requirement. Authorized administrators, using the administrative interface, can easily manage and create groups.				
MWF-2	The solution shall allow for the maintenance of user-defined, reusable group destination codes or lists of users.	X			
	Bidder Response: The proposed system allows for the creation and maintenance of the various group lists by authorized administrators. Groups may be comprised of ORIs, devices, users, other groups, or any combination of these. Groups may be limited to one category as illustrated below.  Additionally, Groups may be nested and contain multiple categories, including other Groups as shown in the diagram below:  				

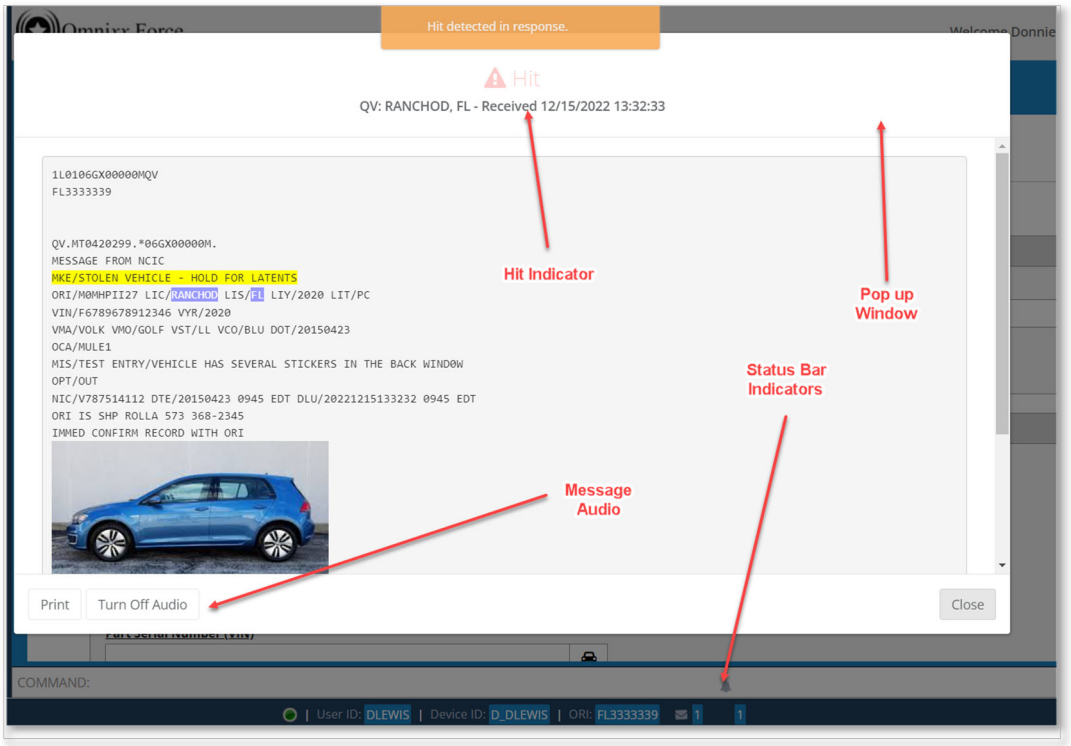
ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
	Messages can be sent to multiple destinations at one time through the use of Groups. Once a Group has been defined, a message can be addressed to the Group and will be delivered to all members of that Group. The following screenshots show the a sample Group properties dialog, and then a “Manage ORI Members” dialog, where the group information is entered, and then the associated ORI group members are selected and added to the group. 				

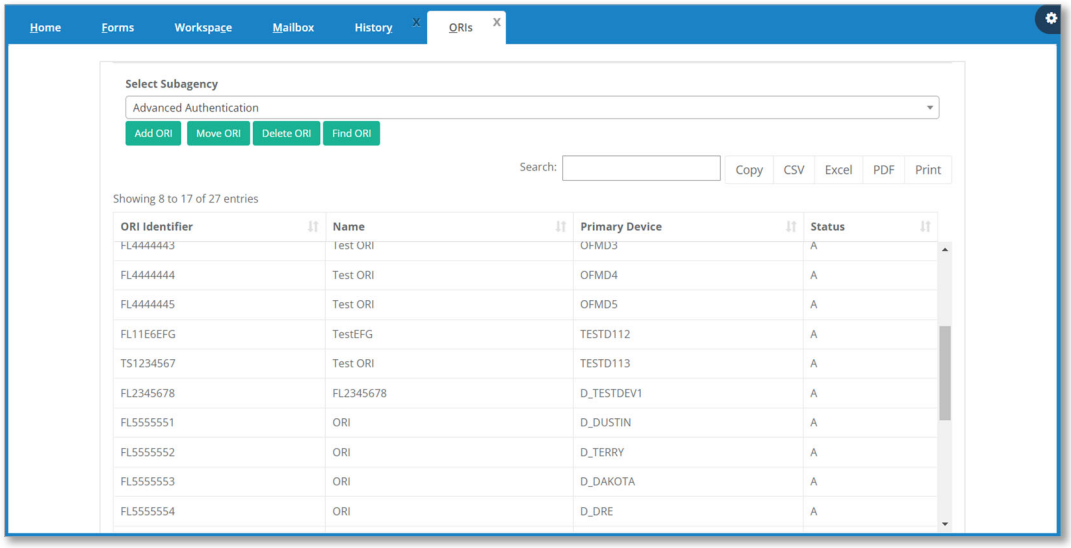
ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
					
MWF-3	The solution shall enable configurable routing based on message or transaction type and content. For example, a hit on a wanted person destined for a mobile device is automatically “copied” to a dispatch center device.	X			
	Bidder Response: The proposed system allows for easy modification of routing rules for messages. The Omni*xx* Enterprise implements configurable “business rules” which permit custom processing to be performed. This includes the ability to create “courtesy copies” to one or more destinations based on message content. As part of the project plan, Datamaxx will work with NSP on initial routing configurations and train NSP personnel on how to make adjustments to existing routes and the creation of new routes.				
MWF-4	The solution should provide guaranteed message and transaction delivery.	X			
	Bidder Response: In 1996, Datamaxx invented the Datamaxx Message Processing Protocol, known as DMPP-2020 to provide a standard method to provide robust message handling and **guaranteed Message delivery** in the Law Enforcement Environment.				

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
	The guaranteed delivery mechanism uses positive and negative acknowledgement techniques to ensure message delivery before de-queuing the message. Additional techniques are used with systems that do not provide application-to-application acknowledgement. For example, since the NCIC TCP/IP protocol does not support application-to-application acknowledgements, the Omnixx Enterprise Platform will wait for a response to be received before removing the message from the queue. DMPP-2020 has become the defacto standard for law enforcement communications. It is used in over 30 state and federal systems, and every major law enforcement vender has implemented it in their system. DMPP-2020 regularly provides guaranteed message delivery for millions of messages every day. The following diagram depicts the states and federal systems utilizing DMPP-2020 today. 				
MWF-5	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).	X			
	Bidder Response: The Omnixx Enterprise Platform provides for both manual and automatic alternate delivery mechanisms. Omnixx Force Desktop provides a transaction form to use (*if the user has the correct permission*) to "alternate route" messages from one device to another. The system also supports "courtesy copies" in that it can be configured to send a copy of a message to another device in cases of emergency. The message for the original device will remain in queue until the operator logs on and receives his or her messages.				

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
	 **ALT Router Scheduler** – A Service Component that is part of the platform and used to schedule the alternate routing of devices. For example, a scheduled can be created so that a non-24 hour devices' traffic can be Copied or Moved to a 24-hour device on weekends, and automatically revert to the non-24 hour device on Monday morning at 8am. 				
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.	X			
	Bidder Response: The Omni*xx* Enterprises Platform provides message queuing and retention functionality as a core feature of the architecture. If there is a connection interruption for any reason, messages will remain in queue and then delivered once communications are re-established.				

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
	The system provides configurations and business rules to manage retention periods and destinations by message type. For example, certain message keys may need to be sent to the Intercept Queue for human review. The message queue provides a fault tolerant approach in that when synchronizing one or more stand by or disaster recovery sites, in event of failure at the main site, the queue files will be sent to the backup site for immediate processing.				
MWF-7	The solution should allow group queues with the option to delete messages on first read or require that messages be deleted manually.		X		
	Bidder Response: The proposed solution supports delivery of messages to groups. The option to delete messages on first read or manually is a planned enhancement for Omni*xx* Force release in 2023.				
MWF-8	The solution shall allow messages to queue and present the messages based on message priorities.	X			
	Bidder Response: The Omni*xx* Enterprises Platform provides message queuing and retention functionality and supports message priorities for delivery, so that message with a higher priority are delivered from the queue ahead of those with a lower priority. The message priorities are managed using configurable business rules, and are easily created and modified using the platforms Application Rules Editor.				
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.	X			
	Bidder Response: Message routes are configurable business rules, and use a table-driven design approach, allowing them to be easily created, and modified using the platforms Application Rules Editor.				
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.	X			
	Bidder Response: All transactions are automatically time-date-stamped using the operating system clock. Messages date/times are stored in the database using the Coordinated Universal Time (UTC) format, allow easy formatting for display across time zones.				
MWF-11	The solution should provide a configurable visual and/or auditory mechanism for making users aware that messages or responses have been received.	X			

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
	Bidder Response: Omnixx Force provides a variety of indicators aware when responses are received: 1. Pop-up window – When a message is received a pop up is displayed showing special message information at the top; 2. When Hit messages are received, a visual indicator is displayed. 3. The status bar includes unread message counters. The counters are animated when they are greater than one to inform the user that there are received responses. 4. Audio. A message sound can be configured based upon then content of the message. In addition, there are distinct sounds for unread no-hit messages and hit-messages, making easy for a user to know the message priority by the sound. 				
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 relatingto the inquiry/response can be restricted, including writing audit trail information to a confidential or restricted audit log.	X			
	Bidder Response: The Omnixx Enterprise Platform in conjunction with the operating system and database, provide the tools to configure message auditing. As part of discovery, Datamaxx will				

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
	work with NSP to define the requirements for “confidential” message handling and then adjust business rules, stored procedures, as needed.				
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).	X			
	Bidder Response: ORIs are configurable, allow authorized administrators to configure the ORIs that are available for a device, which includes ORIs for other agencies. 				
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.	X			
	Bidder Response: Message routes are configurable business rules, and the ability to forward a copy of an unsolicited to one or more other devices (mobile and non-mobile), based upon type and/or content, can be easily configured using the Omni*xx* Rules Editor.				
MWF-15	The solution shall provide the ability to manage a “dead letter file” of messages that cannot be successfully delivered.	X			
	Bidder Response: The Omni*xx* Enterprise Platform provides a Service Adapter that is the “dead letter file” endpoint for messages that cannot be successfully delivered.				

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	
People	***Items***
1. Wanted Persons 2. Missing Persons 3. Unidentified Persons 4. Supervised Release 5. Identity Theft 6. Sex Offenders 7. Gang Affiliation 8. Known or Suspected Terrorist 9. Protection Orders 10. Foreign Fugitive 11. Immigration Violator 12. National Instant Criminal Background Check System (NICS) Denied Persons 13. Protective Interest 14. Violent Person 15. Extreme Risk Protection Order (scheduled to be added in 2022)	1. Vehicle Files 2. Boat Files 3. Parts Files 4. Gun Files 5. License Plate File 6. Securities Files 7. 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
1. Foreign Petitioner (for protection orders) 2. Towed Vehicle 3. 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 *NCIC 2000 Operating Manual*.	X			
		Bidder Response: The NCIC portion of the Hot File system supports all of the current NCIC files, as follows: • Wanted Persons • Missing Persons • Unidentified Persons • Supervised Release • Identity Theft • Sex Offenders • Gang Affiliation • Known or Suspected Terrorist • Protection Orders • Foreign Fugitive • Immigration Violator • National Instant Criminal Background Check System (NICS) Denied Persons • Protective Interest • Violent Person • Vehicle Files • Boat Files • Parts Files • Gun Files • License Plate File • Securities Files • Stolen Article Files The Extreme Risk Protection Order (scheduled to be added in 2022) will be implemented as it becomes available. All data elements as defined in that manual for the files are supported as per the NCIC-2000 manual and related Technical Operational Updates (TOU).				
HF-2	NCIC	The hot file solution should fully support all NCIC 2000 transaction types (e.g.,entry, modify, query, cancel, locate).	X			
		Bidder Response: The NCIC portion of the Hot File system supports all NCIC-2000 functions that pertain to that individual file. These functions include: • Query, including messages spawned from high level functions, such as driver or vehicle query • Entry (including supplemental person data, dental records and detainer functions) • Clear				

ID	NCIC or Nebraska	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
		• Cancel (including person supplemental data, dental records and detainer functions) • Modify (including person dental records and detainer functions) • Locate. Queries may be spawned from higher level functions, so that a user may access several data sources from a single query function.				
HF-3	NCIC	The hot file solution shall support standard NCIC data exchanges (e.g., National Information Exchange Model [NIEM] XML).	X			
		Bidder Response: The data exchanges for the NCIC portion of the Hot File system are completely based on XML data structures. The formats are controlled by style sheets and any XML compliant data structures (e.g. OFML, GJXDM, NIEM, etc.) can be supported. All exchanges for Hot Files to and from NCIC itself will be in the NIEM format, independent of the format submitted used by the end user. Transformations are preformed automatically where needed in order to maintain backward compatibility for such users An end user agency that is already OFML compliant can use the system with no changes, but may move to other formats (e.g. NIEM), as time and budget permit. The Omni*xx* system provides for dynamic response formatting (XML, user visual text or both types) on a message by message basis.				
HF-4	Both	The hot file solution should provide validation of hot file records.	X			
		Bidder Response: The Hot File system provides robust validation functions that allow an authorized agency or user a “self-serve” ability that obviates the need to create and distribute reports. Authorized agency users may view records that pertain to their agency and overall system administrators may view all records in the system, independent of the record owner. This feature may be used to ensure that all agencies are in compliance with validation requirements. The agency may then send a simple “modify” message that updates the validation name field (VLN) and automatically updates the validation date (VLD). The “self-serve” facility allows an agency to view: • Records that have never been validated • Records that are due for validation in current month • Records that are due for validation in a given month				

ID	NCIC or Nebraska	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
HF-5	Nebraska	The hot file solution should support Nebraska response formats.	X			

Bidder Response: The Nebraska portion of the Hot Files System supports the following Nebraska Hot Files.

- Foreign Petitioner (for protection orders)
- Towed Vehicle
- Infractions Warrant

The Nebraska Hot File system is modeled on and is compliant with the NCIC-2000 functionality, as defined in the NCIC 2000 Operating manual.

All data elements as defined in the NCIC 2000 operating manual for these files are supported, plus state specific fields may also be defined within the files. The extra fields do not interfere with the NCIC-2000 data elements, but offer extended functionality over and above the NCIC specifications.

Some of the NCIC 2000 data fields have been expanded, while maintaining backward compatibility in order to provide extra useful functionality for the end users. For example, the “OOC” data element has been expanded to include up to 500 characters of text data that is inserted automatically, in order to assist a user when interpreting a query response. This has no impact on the NCIC 2000 compatibility, but is a simple extension.

Specific aspects of the Nebraska Hot File system include:

- The data elements map to their equivalent NCIC data elements and multiple extended data elements are available for use, over and above the NCIC standard elements. This permits better processing for the benefit of the end user community.
- The unique identifier for each record is known as the “NIS” number. It is year based and is the direct equivalent of the NCIC “NIC” number.
- The Hot file system is integrated with the Message switch, and resides on the same platform.
- The Hot File system has a critical benefit over and above the NCIC processing in that records are “soft” deleted and can be restored after accidental clearing or cancellation, so that records are never physically deleted.
- Processing options for “Auto Playback” of maintenance functions such as Entry, Modify, Locate, etc. so that a user has immediate confirmation of their entry without having to perform a query.
- The functions within each file include:
    - Entry
    - Clear
    - Cancel
    - Modify
    - Locate.

ID	NCIC or Nebraska	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
		○ Full support is provided for all the equivalent NCIC data elements for person supplemental entries, such as AKA, DOB, etc. The Nebraska Hot File system supports the current Nebraska formats. The actual response presented to an end user is constructed by the use of industry standard style sheets and may be modified with no impact or disruption to the system. The Hot files are accessed using XML data streams, and can be spawned directly from queries, or access on a function by function basis, such as when performing a towed vehicle entry.				
HF-6	Nebraska	The hot file solution should provide robust database search capabilities.	X			
		Bidder Response: The Nebraska Hot File solution uses several different search techniques to ensure that as many matches can be found for a query. It is well known that a user may not have all information, or the information has been provided with names reversed for persons and the search techniques allow for these issues. A direct query may be used by the “NIS” number for both Person and Vehicle files Person search features include: • NYIIS Soundex algorithm for name matching. • Reversal of hyphenated last name names For example “GOMEZ-FERNANDEZ” will also be searched as “FERNANDEZ-GOMEZ.” • Broad scoping of “RAC” codes and the ability to search without RAC. • Allows searching without “SEX” or a value of “U” when sex is unknown. • Allows searching by any identifier such as OLN, FBI, MNU, SID etc. Vehicle search features include: • Search by any key identifier, such as LIC, VIN, OAN, etc. • LIC query may be filtered by a state code (“LIS”).				
HF-7	Nebraska	The hot file solution should include tools that support Nebraska reporting and state and federal audit support requirements.	X			
		Bidder Response: The Nebraska Hot file solution has extensive reporting facilities that can be initiated by an authorized user. This permits an agency supervisor to review records that pertain to just their agency. An overall system administrator can review records from any agency by selecting that agency’s ORI. These abilities are controlled by the normal permissions and certifications inherent in the system. The reports can present data in a summary list format, or a detailed format, controlled by an option presented to the end user.				

ID	NCIC or Nebraska	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
		The standard reports that can be accessed by the "Query Record for Management function (QWRM for and QVRM for vehicles) include: • All records in summary format. • All records in detailed format. • Records that have never been validated in summary format. • Records that have never been validated in detailed format. • Records that are due for validation in current month in summary format. • Records that are due for validation in a current month in detailed format. • Records that are due for validation in a given month in summary format. • Records that are due for validation in a given month in detailed format. The Summary format provides a synopsis of each record, while the Detailed format shows every data element associated with the record, including: • Date of Entry • Date of Last Update • User name from last entry or Update • System reference number form last entry/update • Device name from the last entry/update All records are in a Microsoft SQL server database. If unique or custom reports are required, they may be created by the use of the standard SQL server Reporting Tools.				

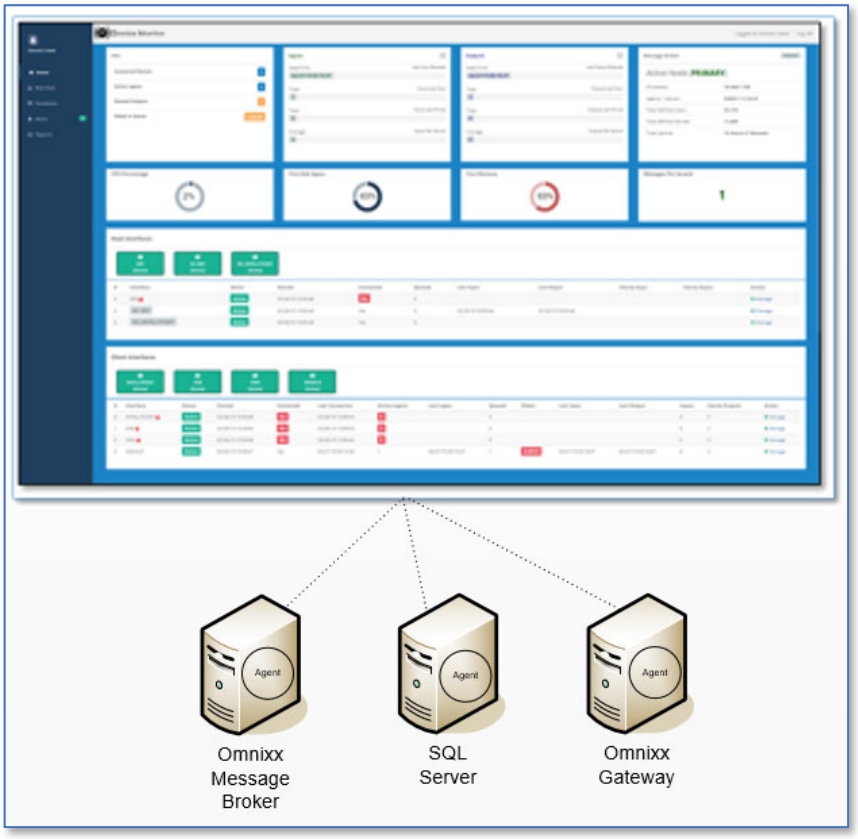
Infrastructure

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

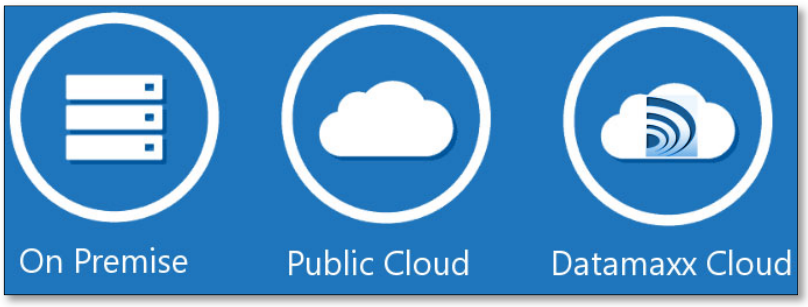
ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
General Infrastructure					
MIN-1	The solution shall minimally provide the operational capacity of the current MSS environment, as defined in Section V.B of the RFP, including photos.	X			
	Bidder Response: The proposed solution meets these requirements with current capability or configurable Items. The Omni*xx* Enterprise Platform is installed in many locations that have similar requirements to the NSP MSS system and it employs best practices for cluster and load balancing providing a robust, scalable, and mature platform. It can support the NSP MSS processing requirements and projected 7.5% growth rate. User, Agency, Device, ORI, etc. are stored in a SQL Server relational database providing the ability to store all necessary information and the ability to add to it for future growth. The Omni*xx* Enterprise Platform supports all NCIC and NLETS transactions including Entries, Modifies, Clears, Cancels, Locates, and Queries. New transactions for state specific data stores can be added to the				

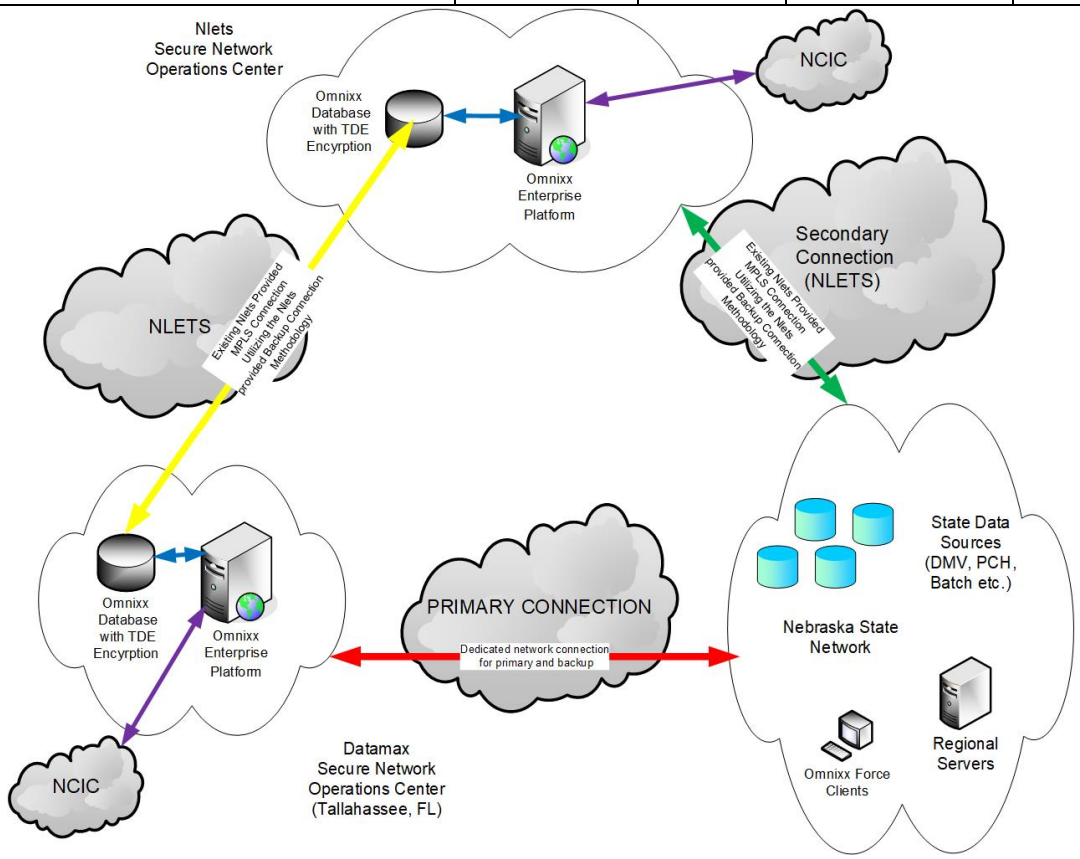
ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
	system using the built-in tools for creating transaction forms, help files, code tables, etc. Photos, images, and binary files are supported in a variety of formats, including NCIC 2000, NISP (NLETS Interstate Sharing of Photos), and state specific formats (e.g. DMV, etc.).				
MIN-2	The solution should utilize a system architecture that is open, nonproprietary, and portable.	X			
	Bidder Response: The Omni*xx* Enterprise Platform (OEP) provides robust support for standardized technologies including XML, Web Services, the Simple Object Access Protocol (SOAP), HTML, XSLT, and Java Script, providing a system architecture that is open, nonproprietary, and portable. The OEP supports industry standard hardware and databases, and has a proven success in virtualized environments. Datamaxx was the first company to deploy law enforcement products (*North Carolina, 20,000 users, Year: 2001*) that fully support XML exchanges between server and clients, XSLT for message transformations, JavaScript for script processing, and HTML for rendering. The Omni*xx* Enterprise Platform also provides best in class support for XML formatted message exchange to NLETS, as well as other systems that employ GJXDM (Global Justice XML Data Model), and NIEM (National Information Exchange Model). Datamaxx published the Datamaxx Messaging Processing Protocol, known as DMPP-2020 to provide a standard approach for communications and guaranteed message delivery. DMPP-2020 is now a standard, used multiple States, and is supported by all major law enforcement systems vendors. Unlike other vendor solutions that were implemented in Unix and converted to Windows, the Omni*xx* Enterprise Platform was built from the ground up leveraging the best in Microsoft platforms, technologies, and development tools. The OEP is a robust platform leveraging Microsoft technologies such as .Net, SQL Server, and Windows OS technologies. One example of deep integration with Windows is that the Omni*xx* Enterprise Platform utilizes the core Windows kernel HTTPS driver which provides high performance web services from the Windows core OS. This driver is highly optimized and scalable and is the same driver used by Internet Information Services (IIS) to serve up high performance web sites by Windows. Another unique feature offered by the Omnixx Platform is it exposes Web Services for items stored in repository (e.g. User Profiles, Device Configurations, Groups, Roles, ORIs, Archive Log, etc.) and to send and receive messages. These powerful features mean that any application needing to access to the repository information and/or send and receive transactions, it can do so in a secure and standardized way (e.g. XML) utilizing industry standard web services. No other vendor offers this flexibility. The Omni*xx* Enterprise Platform is “n-tiered” and can be configured to have multiple tiers distributed across multiple physical platforms, if desired. There is a “gateway” tier, an “application” tier, and a “database” tier that can be co-located or placed on separate physical or virtual machines depending upon the requirements for how it is to be deployed within the network. This provides many advantages for securing access to the data sources as well as for scalability, redundancy, and disaster recovery. The architecture is “firewall friendly” in that access between servers use standard Internet technologies such as “Simple Object Access Protocol (SOAP)”. This permits components such as the repository database to be located within a secured network a protected by firewalls, with no requirement to open access to any other function except those required by SOAP. This is an important level of indirection, as it allows end user access to the user facing components (such as the Web Server and communications components) but block any user access to protect items such as direct database access.				

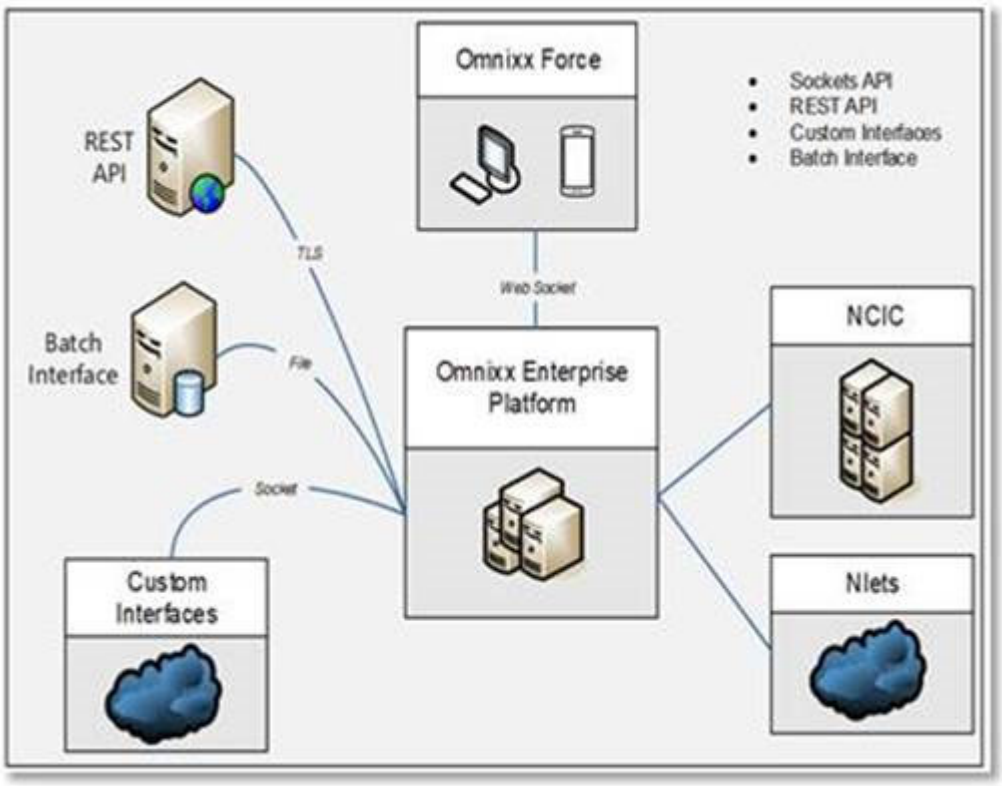
ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
	This architecture also provides distributed and delegated administrative capabilities via a web browser. The Omni*xx* Force Administration Console web application is used to manage user profiles, devices, configurations, courseware, class schedules, reports, etc. It provides fine-grained control of the features by using certifications or roles to control access to them. For example, an administrative user can be configured to access only those user accounts within his or her agency, providing a way to delegate user maintenance in a restricted fashion. Another example is to assign an administrative user a "help desk" certification (e.g. role) that only permits access to the "password reset" function. This fine-grained control provides a unique feature that is configurable to provide any combination of access to virtually any function within the system.				
MIN-3	The solution should be adaptive and use extensible architecture for future expansion and scalability without the need for major architectural modifications.	X			
	Bidder Response: As described above in the response to "MIN-2" the proposed solution utilizes an extensible architecture and is well positioned for future expansion and scalability without the need for major architectural modifications. Omnixx Enterprise Platform is comprised of a series of "run-engines" that interpret business rules stored on a central server to provide the desired functionality. It employs standard technologies including XML, Web Services, SOAP, HTML, XSLT, Java Script, and Regular Expressions as well as best practices support for load balancing, clustering and virtual technologies to provide a scalable, highly available, manageable environment. XML is key factor in extensibility in that it provides a structured approach for data process, making it easy to extend and an approach that is backwards compatible with existing client applications when new features are added to the system. The Omni*xx* Enterprise Platform design imposes no limits on the number users, devices, communications interfaces, or transaction definitions. There is no "System Generation" required to add or expand system databases to accommodate solution expansion. For example, the Omni*xx* Enterprise Platform database servers may be on one platform, while the Omni*xx* Enterprise Platform application servers reside on a second platform and the Omni*xx* Enterprise Platform communications components on a third, depending on individual processing requirements. The location of Omni*xx* Enterprise Platform components is a soft configuration option that can be modified with no code changes to the overall system. This design allows for easy expansion without having to perform major architectural changes to the hardware or software. This is a unique feature of the Datamaxx solution supporting both vertical and horizontal scaling to accommodate future growth, protecting NSP's technology investment.				
MIN-4	The solution should provide system diagnostics and regular, automated reporting, including, but not limited to, error correction and detection.	X			
	Bidder Response: The Omni*xx* Enterprise Platform (OEP) includes a self-monitoring dashboard that provides real-time alerts to Datamaxx staff as well as State and agency contacts as configured. The OEP solution provides performance monitoring, interface status, queue status and management, etc., the platform includes Omni*xx* Monitor, an operational dashboard that provides a visual display of the system, including real-time statistics, CPU, disk, memory health, messages per second, database and website available, queue status, interface status and message statistics. Critical events that exceed a				

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
	threshold (such as high CPU or memory use, or disk space low) will log entries into the Windows Event log, which can trigger notifications to system administrators. Additional system alerts can be viewed on the dashboard and configured to send notification messages to system administrators with predictive information of problems in advanced of application failure. A sample of the Omni*xx* Monitor dashboard is shown below.  Datamaxx also provides 24X7X365 technical support. All Datamaxx Secure Cloud systems have monitoring tools implemented to alert our technicians in the event of an issue and/or potential issue.				
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.	X			
	Bidder Response: The deployed system will include production, test, training, and development environments and the necessary licenses for those systems.				
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.	X			

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
	Bidder Response: The proposed solution meets these requirements with current capability or configurable Items. The proposed solution complies with all NCIC response time and performance specifications, within the factors controllable by the solution. NCIC publishes standards for performance in section 5.2 of the Operating Manual. An excerpt from the requirements is as follows: "Average message response time from a CTA to an agency interfaced with the CTA should not exceed 12 seconds after transmission of the inquiry, with two (2) of the 12 seconds allocated to the transmission to, processing by, and return of the response from NCIC." There are two factors to consider – the processing of an NCIC request as submitted by a user, inclusive of the creation of the correct message format, plus any spawning requirements, and that of the NCIC communications interface itself. The internal processing of a transaction, including data editing and transaction creation and logging is controlled by the "business rules" and happens within 250 milliseconds (1/4 of a second). The baseline benchmark for performance is "Occupancy Time". This metric indicates how much time a transaction spends in a processing cycle, from the time that an input is received, until all outputs have been generated, and the process is available to accept the next transaction. Occupancy Time is a good measure of performance, as it isolates the processing system from external factors such as network speeds and congestions, except for locally accessed systems, such as database storage. With a "multi-thread" approach, as is used in the proposed solution, multiple transactions can be active simultaneously.				
MIN-7	~~The hardware should provide the capability for remote maintenance and troubleshooting.~~				
	Bidder Response: Deleted per Addendum 1.				
MIN-8	There should be no hardware or software/application restrictions limiting the number of users capable of using the MSS.	X			
	Bidder Response: The Omni*xx* Enterprise Platform is both horizontally and vertically scalable. The software is N-Tiered; therefore additional processing capacity can be added as well as database capacity to accommodate growing databases of users and audit data. The Omni*xx* Enterprise Platform design imposes no limits on the number of users, devices, communications interfaces, or transaction definitions. There is no modification required to add or expand system databases to accommodate solution expansion. The proposed solution will scale to the limits of the hardware platform on which installed. For example, the Omni*xx* Enterprise Platform database servers may be on one hardware platform, while the Omni*xx* Enterprise Platform application servers reside on a second server and the Omni*xx* Enterprise Platform communications components on a third, depending on individual customer processing requirements. In addition, just for illustration purposes, everything could also be co-located on one server – the software platform allows for extremely flexible configuration options which helps ensure future capabilities for the customer. The configuration of Omni*xx* Enterprise Platform components are just configuration options that can be modified with no code changes to the overall system. This approach has been used with every deployment of the proposed system and has been successfully implemented in multiple configurations in agencies of similar size at both the State and Federal level. This design allows for easy expansion without having to perform major architectural changes to the hardware or software and thus has no restrictions limiting the number of users capable of using the NSP				

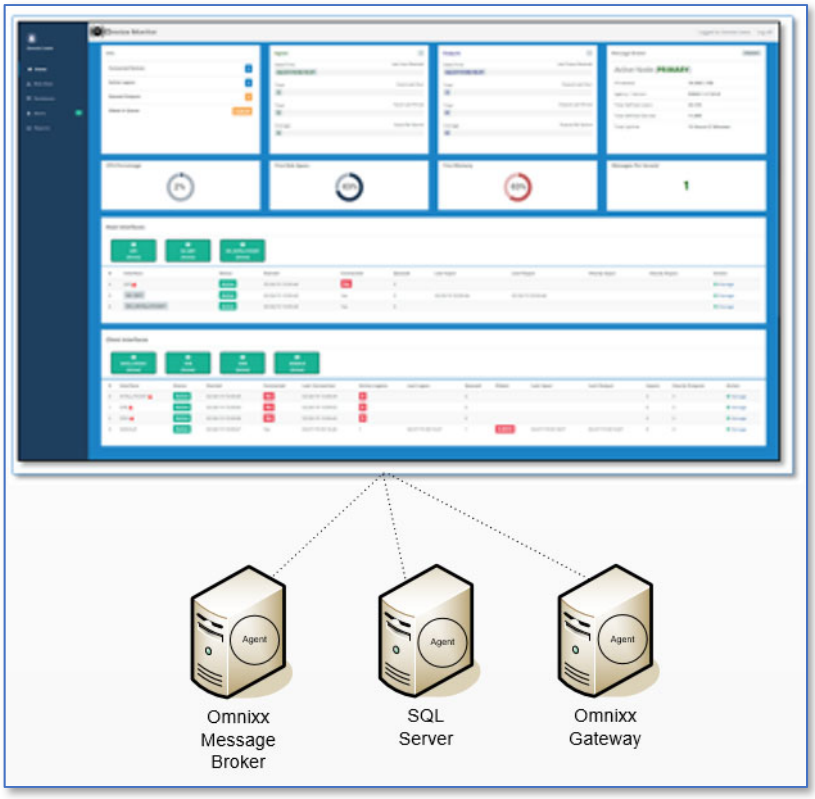
ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
	MSS system. This unique and mature feature of the Datamaxx solution will support both vertical and horizontal scaling to accommodate future growth thus protecting NSP's technology investment.				
MIN-9	The solution 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.	X			
	Bidder Response: The Omnixx Enterprise Platform supports a variety of deployment options including On Premise, Public Cloud, and Datamaxx Cloud. There are several state-wide deployments utilizing the Datamaxx Cloud, the Department of Justice implementation is hosted on the Microsoft Azure Cloud, and there are several state-wide and regional On Premise implementations.  The proposed Nebraska MSS solution will be a cloud-based solution. The solution incorporates two Law Enforcement and Criminal Justice centric cloud providers, Datamaxx and Nlets. The Primary location for the Nebraska Omni*xx* Enterprise Platform will be located in the Datamaxx Secure Cloud operations center located in Tallahassee Florida. The secondary location will be located within the Nlets Nova Cloud Platform in Phoenix, AZ. The hosted solution is depicted below.				

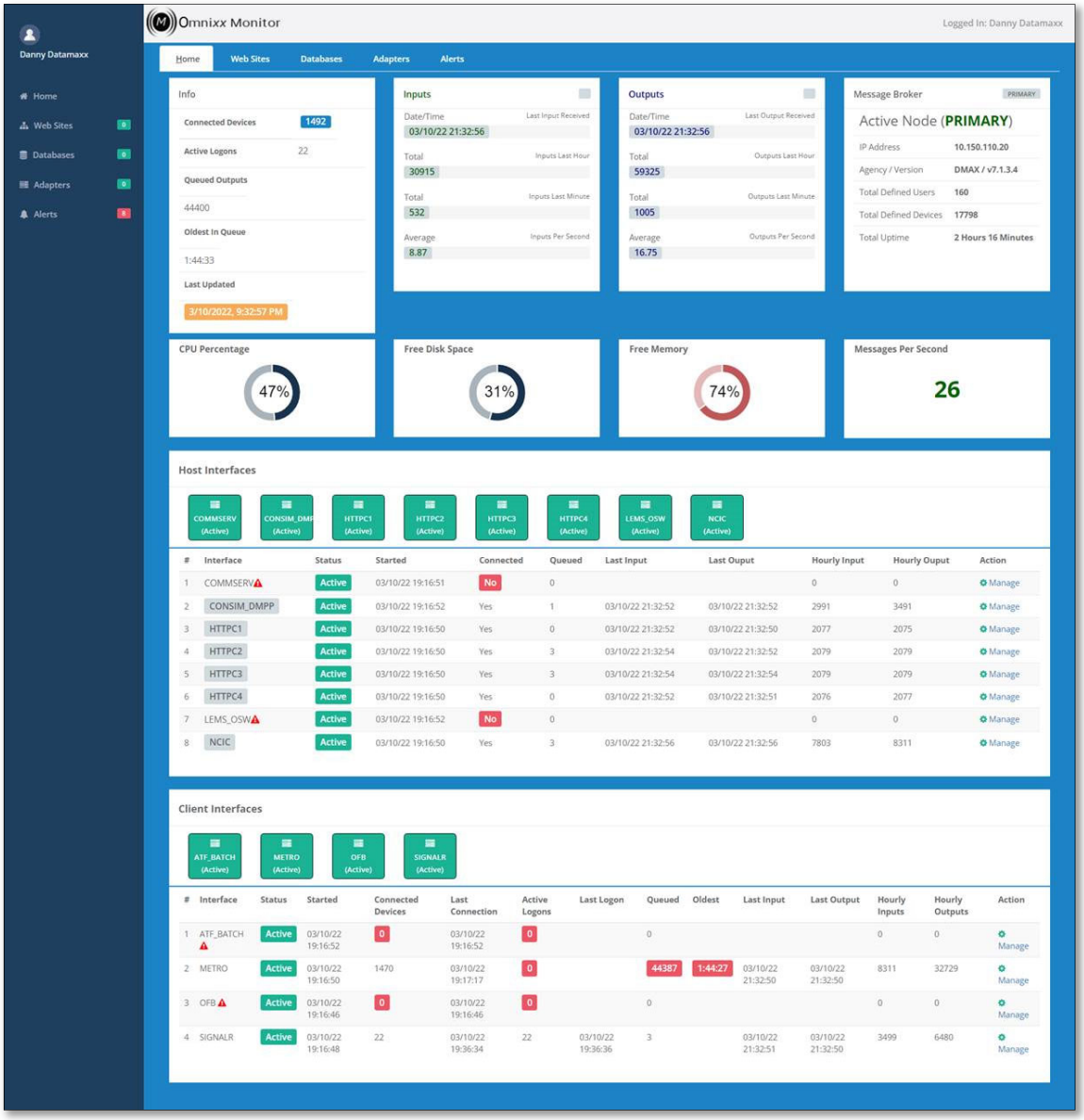
ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
	 The proposed cloud solution provides a Law Enforcement audited and secure solution leveraging existing network connections to provide a cost efficient solution.				
MIN-10	The solution shall allow the addition of third-party software components (e.g., certification application).	X			
	Bidder Response: The Omnix*x* Enterprise Platform is designed to be delivered on industry-standard, readily available and open hardware platforms, operating systems and databases; designed around XML technology that complies with GJXDM and NIEM standards; and incorporates technically sophisticated ESB/SOA technology as a value add. This unique feature of the proposed Datamaxx solution allows the system to easily scale through the addition of third party hardware and software components. This is a key point of difference for the Datamaxx solution as the highly configurable nature of the Omnix*x* Enterprise Platform allows NSP to fully leverage their technology investment in many ways. While the Datamaxx solution is based on open standards, it was developed using the .NET platform to natively run in a Microsoft Windows environment where as other vendor solutions use third party tools to port legacy UNIX based applications over to a Windows environment. The Datamaxx native application design allows for software flexibility without the concern of breaching cross platform code porting limitations as it relates to software integration points. Also to highlight our experience, Datamaxx has successfully deployed similar solutions in various other states and federal agencies that integrated with 3rd party software applications such as a Certification application, intelligence databases, other local hot files, automated vehicle locator systems (AVL), automate field reports and forms (AFR), multiple CAD and RMS systems, and a myriad of other software				

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
	applications which run through systems comparable to that of the NSP MSS system. Hardware and more specifically software integration is a strong point of the Datamaxx solution as our goal is to enable the customer to control and expand their solution without vendor interference. To highlight this aspect, the Omnixx Enterprise Platform includes various server and client interfaces (desktop, mobile, handheld, web) as well as a fully documented Applications Programming Interface (API) Guide that easily enables 3rd Party software applications to send and receive messages and data to the various components connected to the platform. This is critical for any platform requiring 3rd party software integration. A standardized approach to application integration is required especially for on-going maintenance in the future. Custom, one-off integration will cost more to support which is a limitation of other vendor solutions.  Overview of 3rd Party Software Integration Flexibility of the Omnixx Enterprise Platform				
MIN-11	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. The bidder should anticipate a 7.5% annual increase in throughput and workload.	X			
	Bidder Response: The Omnixx Enterprise software is N-Tiered; therefore, additional processor capacity and/or storage hardware can be added as well as database capacity to accommodate throughput and workload over a five-year period (and beyond). By simply adding additional processing power and disk				

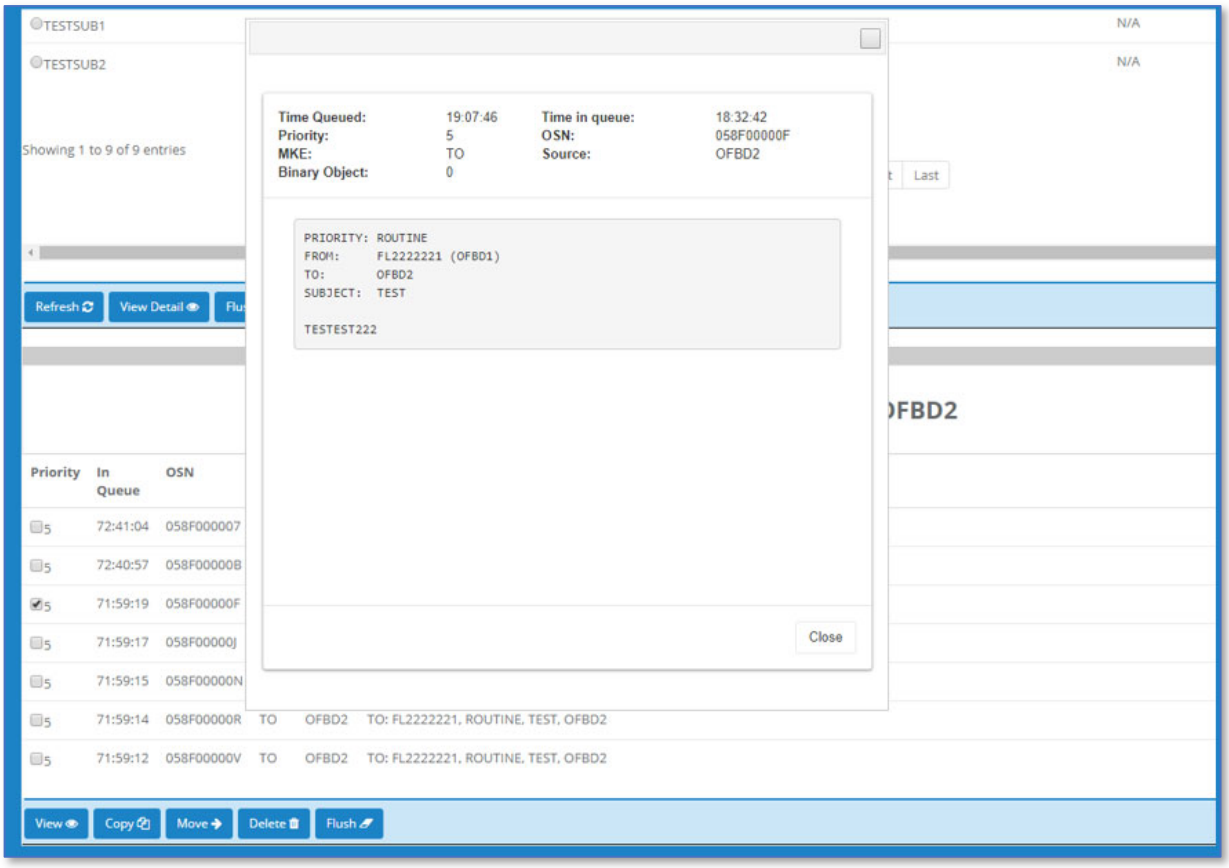
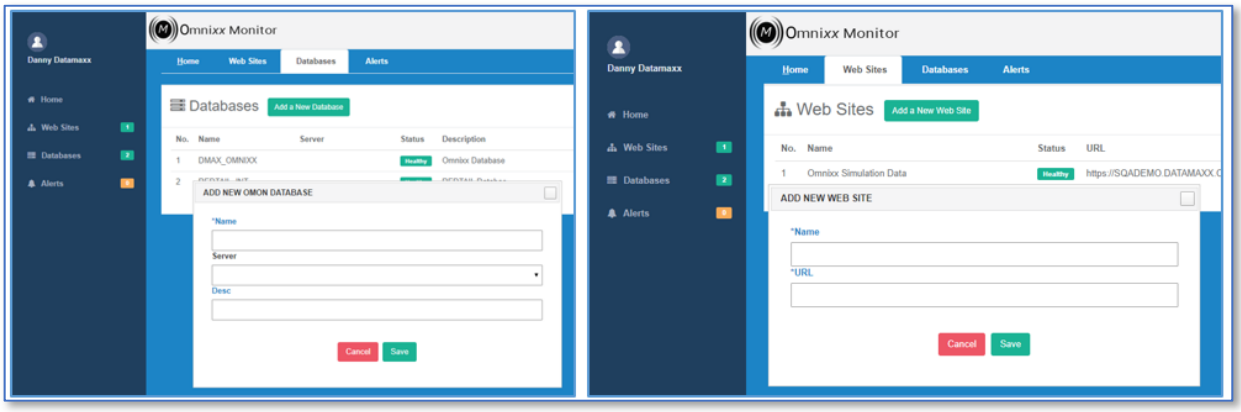
ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
	space, the system can be expanded as required by system utilization. There are no limitations to hardware expansion. The Omni*xx* Enterprise Platform design imposes no limits on the number users, devices, communications interfaces, or transaction definitions. There is no "System Generation" required to add or expand system databases to accommodate solution expansion. The proposed solution will scale to the limits of the hardware platform on which it is installed. For example, in a similar project deployment, the Omni*xx* Enterprise hardware platform was expanded to include additional storage space as the customer's transactional volume increased with the addition of many more users over the course of time along with wanting to keep the audit data available for a longer period of time. Datamaxx added a NAS which increased the storage capacity immediately without any impact to the operational system. The anticipated 7.5% throughput and workload annual increase has been factored into the overall Cloud solution configuration proposed.				
MIN-12	The system should be designed to provide fault-tolerant processing.	X			
	Bidder Response: Datamaxx has a tremendous amount of experience in the implementation of the mission critical systems requiring fault tolerant processing. The solution proposed will enable failover, scalability, and support for a disaster recovery that will establish a 24x365 operation. All components are considered mission critical and therefore will be implemented using clustering technology. The system will be configured to provide high availability and system failover through a combination of hardware, Microsoft Windows Server 2003 software, and configuration services. The Microsoft Cluster Server will be configured in an Active/Passive state, thus enabling each server to physically access the data storage, however only one server will be active at any one point. The software components to the solution provided by Datamaxx as well as disk drives, NIC adapters will be configured within the Microsoft Cluster Server. In the event the cluster manager detects a failure within one of the configured components, the Cluster Server software will switch over to the machine in a passive mode, and will automatically restart the necessary component.				
MIN-13	The storage medium used for backup/recovery data should be reusable. The disaster recovery process should utilize the reusable storage medium.	X			
	Bidder Response: The proposed solution incorporates a backup and data replication strategy. The backup component leverages the Veeam Backup and Recovery solution. The solution accounts for the system databases to be replicated to the disaster recovery utilizing real-time data synchronization. Any additional backup data from the primary location will be utilized as part of the data recovery process.				
MIN-14	The warranty clock shall not start until final acceptance of the MSS solution.	X			
	Bidder Response: The warranty clock for the Datamaxx application software will not start until final acceptance of the NSP MSS solution.				
MIN-15	The solution should be compatible with Internet Protocol (IP) networking standards.	X			
	Bidder Response: The Omni*xx* Enterprise Architecture is compatible with IP networking standards. Omni*xx* Enterprise Platform is a multi-tiered architecture designed to function in a secure network environment, as				

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
	well as allowing access to a DMZ by segregating tier-1 components, with access to "secure" components protected by firewalls. The proposed solution is compatible with IP networking standards as a wide variety of protocols are supported (e.g. TCP/IP sockets, Web Services, IBM WebSphere MQ, etc.), and the data content (*including control information required for routing and auditing purposes*) is controlled by the business rules, and is therefore configurable. The data content strategy is separate from the communications strategy, which provides tremendous advantages when implementing new interfaces, as a "mix and match" of existing components can be configured.				
MIN-16	The solution should be compatible with Datamaxx Message Processing Protocol (DMPP-2020) and Omnixx Force/OpenFox Markup Language (OFML).	X			
	Bidder Response: The proposed solution is fully compatible with Datamaxx Message Processing Protocol DMPP-2020 and the Omni*xx* Force Markup Language (OFML) Standards.				
MIN-17	The solution should provide a Web- based tool set for centralized control of the system using an enterprise management platform.	X			
	Bidder Response: The Omni*xx* Monitor Agent runs as a Windows service on monitored machines, feeding alerts into the Omni*xx* Monitor database, proving a comprehensive, centralized view of the system in the Omni*xx* Monitor Dashboard.				

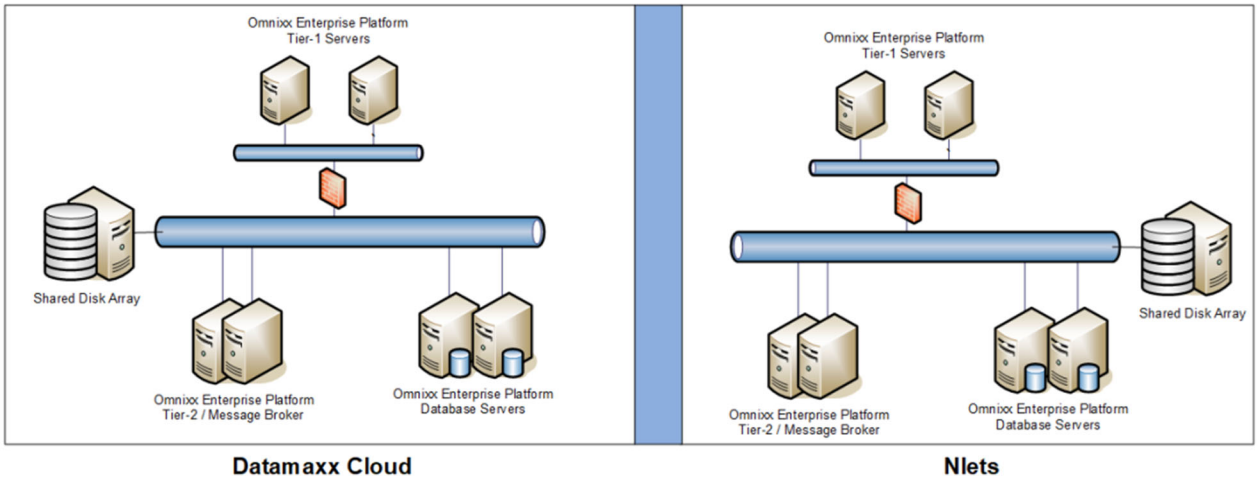
ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
	 A sample screenshot is shown below. The top portion of the dashboard shows message input and output statistics as well the status of the CPU, Memory, Disk, and the current messages per second being processed by the Omni*xx* Message Broker. The web-based dashboard automatically refreshes at regular intervals to display up to date information.				

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

The Omnixx Monitor provides access to the message queues enabling administrators to view the statuses of devices (online/offline) and the messages in queue. Administrators can drill down into each device queue and view the message payloads, queue times, and priorities. Queues can be managed using the View, Copy, Move, Delete, and Flush commands.

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
	 The Omnixx Monitor provides the configuration screens to add databases and websites to be monitored and will display up/down statuses in the dashboard and send alert notifications to system administrators. 				
MIN-18	The solution should be compatible with current wired networking standards (e.g., 10 Mb/100 Mb/1 Gb) for NSP.	X			

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
	Bidder Response: The proposed solution is compatible with current wired networking standards (ex. 10MB/100 MB) for NSP. There are no special requirements or proprietary networking components required for the solution to properly operate.				
MIN-19	The solution should provide Transmission Control Protocol/Internet Protocol (TCP/IP) version IPv4 addressability for all components throughout the network.	X			
	Bidder Response: The proposed solution will provide TCP/IP addressability for all components throughout the network. The proposed solution is compatible with TCP/IP networking standards as this communications strategy is an inherent part of the proposed solution.				
MIN-20	The solution should recognize addressable agency ORIs.	X			
	Bidder Response: The Omnixx Enterprise Platform provides support for ORI and agency configurations using the web-based Omnixx Force administration console .This permits authorized administrators, based upon their assigned role the ability to modify ORIs and agencies. An ORI is associated with a device and messages addressed to that ORI will be routed to that device. In addition, transaction forms that require an ORI will be automatically populated or "preloaded" with the ORI assigned to a device when a form is opened or reset. This aides the user so that the ORI does not need to be typed in for each transaction, and provides the ability for it to be changed if so configured on the system. The agency configuration provides an optional property for identifying the ORI assigned to that agency. Additionally, another optional feature is that ORI code lists can be configured for each agency or device restricting the ORIs that a user may use for transactions. This is helpful for agencies that run transactions on behalf of other agencies, and gives NSP central control of who is allowed to run transactions for a specific ORI.				
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.	X			
	Bidder Response: The primary location for the Nebraska MSS solution will reside within the Datamaxx Secure Cloud Facility. The secondary or disaster recovery hot site will be located in the Nlets Secure Cloud Platform.				
MIN-22	The solution should include a disaster recovery hot site that provides real- time synchronization.	X			
	Bidder Response: The primary data store for the Omnixx Enterprise Platform (OEP) leverages Microsoft SQL Server databases for both system configuration data as well as all message transaction logs. The proposed solution will incorporate the Microsoft SQL Server Availability Groups feature to replicate data between the SQL Server nodes between the primary and secondary locations. The Data will be replicated to the primary/secondary servers at each physical location.				
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	X			

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
	hour.				
	Bidder Response: The proposed solution has identical hardware capable of providing 100% of operational capacity located at both the primary (Datamaxx) and secondary (Nlets) locations. In the event the solution requires transitioning from the primary location to the secondary location, the secondary location will be an operational equivalent of the primary location. As part of the Project Implementation, the COOP plan will be created and the details necessary to accomplish the Recovery Time Objective (RTO) of 1 hour will be included. Since the system incorporates real-time data synchronization and the secondary location is in a Hot Standby mode the primary steps required to complete the transition from the primary to the secondary location will be the network transition steps.				
MIN-24	The solution should provide automated failover in the event that one site goes down and is inoperable.	X			
	Bidder Response: Datamaxx has a tremendous amount of experience in the implementation of mission critical systems requiring fault tolerant processing. The solution proposed will enable failover, scalability, and support for disaster recovery that will establish a 24x365 operation. The Omni*xx* Enterprise solution supports clustering, and load balance technologies to provide high availability and fault tolerance.  The system will be configured to provide high availability and system failover through a combination of hardware, Microsoft Windows Server software, and configuration services. At each location, the approach is the Microsoft Cluster Server will be configured in an Active/Passive state, thus enabling each server to physically access the data storage; however, only one server will be active at any one point. The software components to the solution provided by Datamaxx as well as disk drives and NIC adapters will be configured within the Microsoft Cluster Server. In the event the cluster manager detects a failure within one of the configured components, the Cluster Server software will switch over to the machine in a passive mode, and will automatically restart the necessary component. In addition, the proposed solution will incorporate the Microsoft SQL Server Availability Groups feature to replicate data between the SQL Server nodes between the primary and secondary locations.				

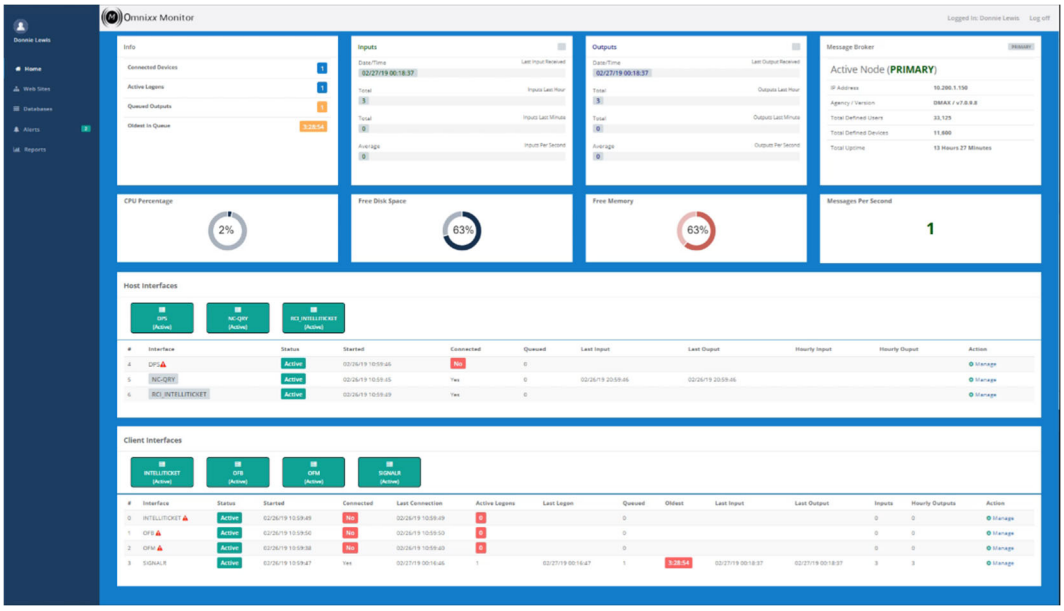
ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
	In the event of disruption-of-service scenario, the operational system will be transitioned to the secondary location within the required time limits set forth in COOP plan project deliverable. The solution also provides support to copy message queues from the primary location to the secondary location. The queue synchronization reduces the time to bring the MSS system on-line at the secondary location for return to operation. The primary message queues are then automatically processed and re-injected in the secondary location MSS.				
Network					
NET-1	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.	X			
	Bidder Response: The proposed Cloud hosted Nebraska MSS Solution includes network connectivity between the NSP headquarters and the Datamaxx Secure Cloud Operations center via a dedicated ENS Circuit. The connectivity between NSP Headquarters and the Nlets NOVA Cloud platform operations center will utilize the existing Nlets MPLS Connection between Nebraska and Nlets. Datamaxx as a Nlets Partner has a Nlets MPLS Network connection already in existence and will leverage the connection for connectivity between the primary and COOP site. Datamaxx will be responsible for deployment, management and costs associated with the connection between NSP Headquarters and the primary location (Datamaxx) as well as the connection between Datamaxx and Nlets. To reduce overall solution costs, the solution utilizes the Nlets network connection between NSP and Nlets implemented as a component of the Nebraska Nlets Membership.				
NET-2	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.	X			
	Bidder Response: The proposed Cloud hosted Nebraska MSS Solution includes backup network connectivity between the NSP headquarters and the Datamaxx Secure Cloud Operations center via a LTE wireless VPN backup solution in the very unlikely event the dedicated ENS Circuit becomes unavailable. The connectivity between NSP Headquarters and the Nlets NOVA Cloud platform operations center will utilize the existing Nlets AT&T wireless VPN backup network connection between Nebraska and Nlets in				

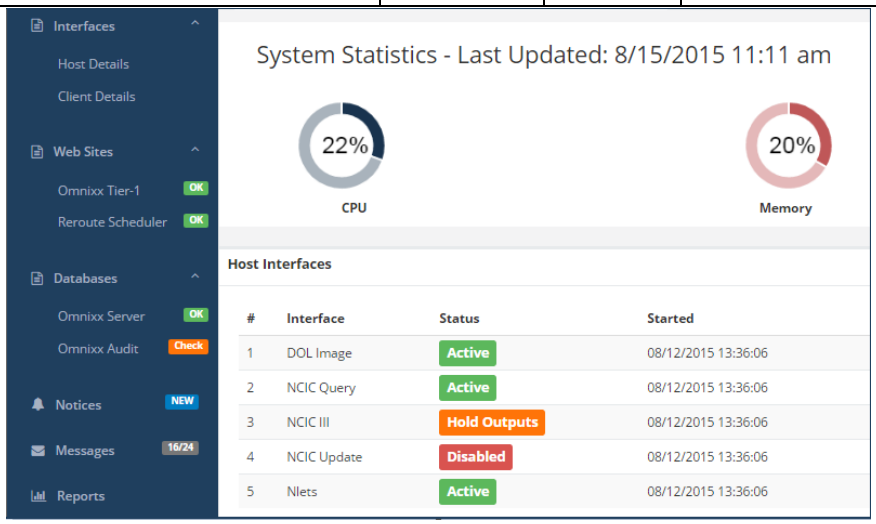
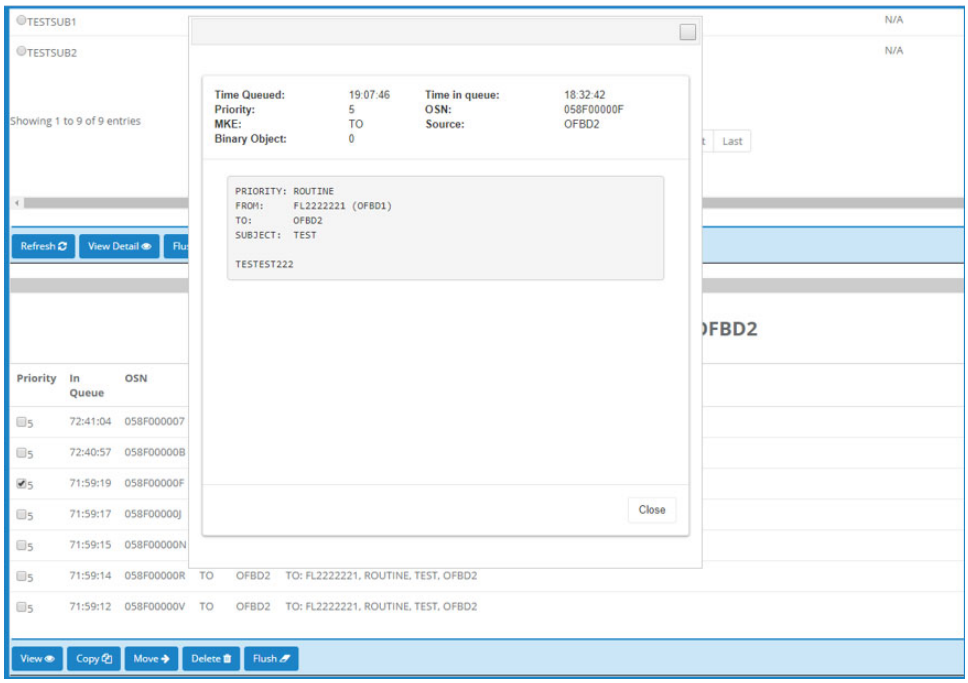
ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
	the event the existing MPLS connection becomes unavailable. Datamaxx as an Nlets Partner has an Nlets AT&T wireless VPN backup Network connection already in existence and will leverage the connection for connectivity between the primary and COOP site in the event the primary MPLS connection becomes unavailable. Datamaxx will be responsible for deployment, management and costs associated with the connection between NSP Headquarters and the primary location (Datamaxx) as well as the connection between Datamaxx and Nlets. To reduce overall solution costs, the solution utilizes the Nlets backup network connection between NSP and Nlets implemented as a component of the Nebraska Nlets Membership.				
NET-3	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.	X			
	Bidder Response: The proposed system has a combination of 100mb/sec and 10mb/sec network connections between NSP and the primary and secondary sites. The connection between sites is also a 10Mb/sec network connection. The VPN backup solutions have also have the adequate bandwidth necessary to support a burst of 20mbit/sec based on the analysis of data provided thus far related to existing traffic.				

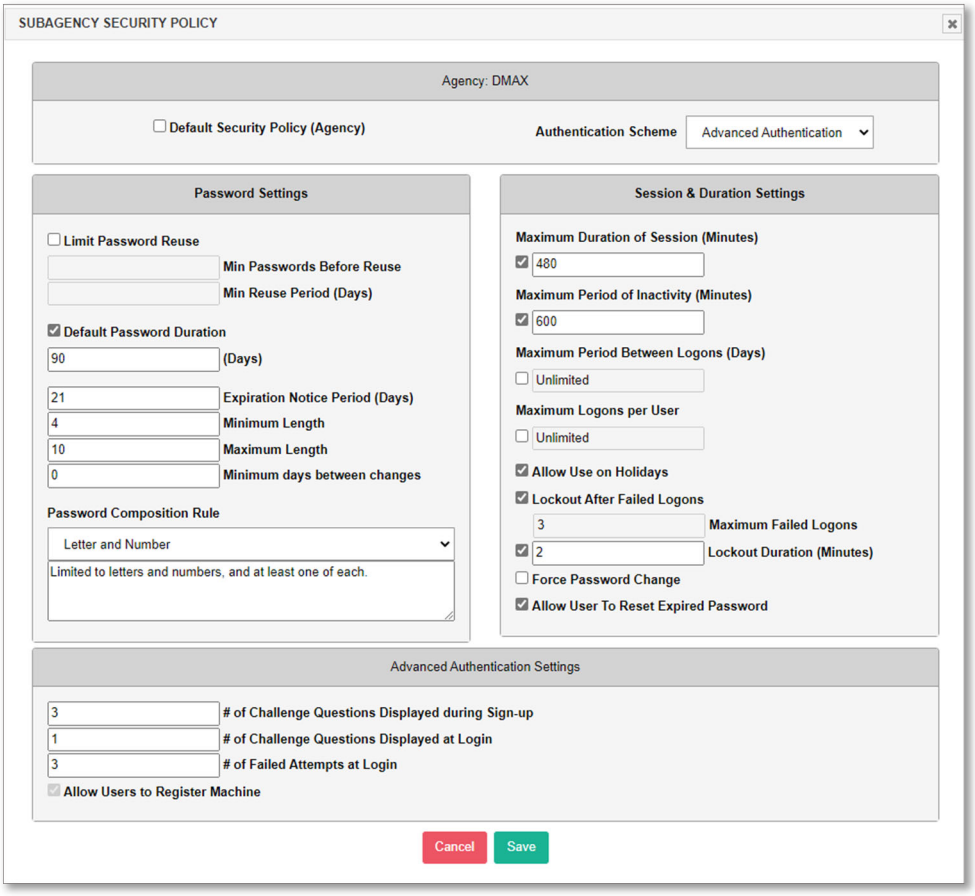
Applications

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.	X			
	Bidder Response: The Omni*xx* Enterprise Platform supports 2 CJIS compliant, easy-to-manage, and inexpensive advanced user authentication strategies. 1. Omni*xx* Two-Factor Authentication (2FA) – User Identifier, Password, One-Time Code 2. Omni*xx* Risk-Based Authentication (RBA) – User Identifier, Challenge/Response based upon device forensics				

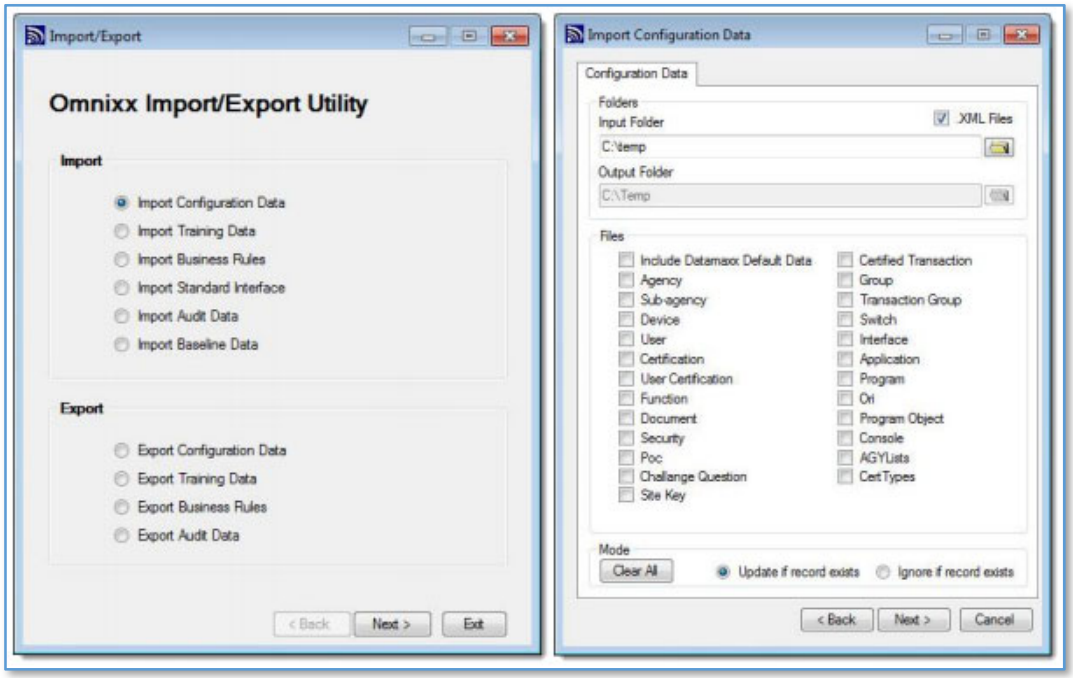
ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
MAP-2	The solution shall provide multilevel security to restrict access and control functionality, in accordance with CJIS Security Policy.	X			
	Bidder Response: Datamaxx acknowledges that the proposed solution complies with this requirement.				
MAP-3	The solution should provide an administrative or dashboard monitor view of the application and its status.	X			
	Bidder Response: Omni*xx* Monitor is the monitoring dashboard that provides current system status information, and enables authorized operators to view details and manage message queues. The screenshot depicts the Omni*xx* Monitor Status Summary Dashboard providing overall system status. The top 2 panels display information about connections, input and output statistics, which node is active (if message switch is clustered), system uptime, current CPU, memory, and disk use, and the number of messages per second being processed. The bottom 2 panels display interface queue status and metrics including connections, active logons, # of queued messages, and hourly inputs / outputs.  Omni*xx* Monitor also tracks website and database availability and provides drill-down capability to manage message queues.				

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
					
					
MAP-4	The solution shall afford system administrators the ability to easily update security parameters while the system is online.	X			
	Bidder Response: System administrators can easily update security parameters while the system is online using the Security Policy configuration screen. Changes are immediately available when the Save button is clicked and the save operation commits to the database.				

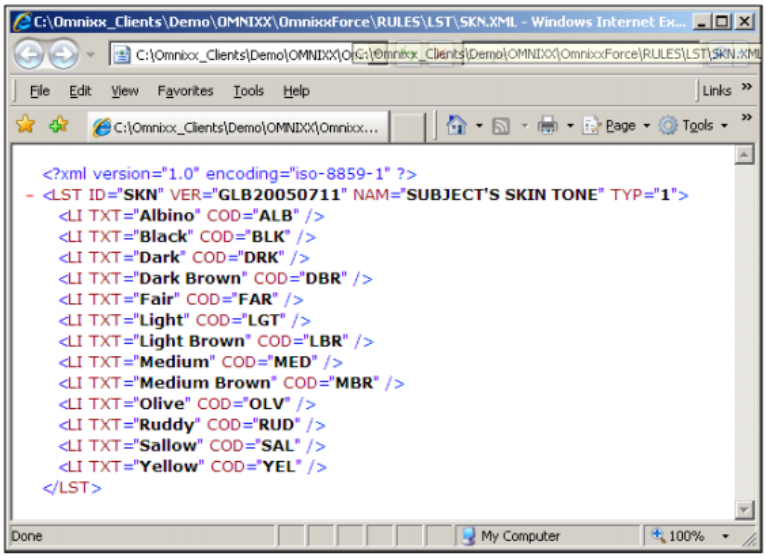
ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
					
MAP-5	The solution shall process data in real time. This means that any parameter change, or data change shall be done while the system is online. The change should take effect immediately.	X			
	Bidder Response: The Omni*xx* Enterprise Platform processes data and changes in real time. Application data and configuration changes can be while the system is online, and the changes take effect immediately without require a system restart. This is automatic; does not require user intervention, and controlled by authorized system administrators.				
MAP-6	The solution shall utilize Hypertext Transport Protocol Secure (HTTPS), especially for the user application component.	X			
	Bidder Response: The Omni*xx* Enterprise Platform uses and supports HTTPS for web services and for the user application component, Omni*xx* Force which is a responsive zero footprint web application.				

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
MAP-7	The solution should provide the export or import of system code tables for NSP use with other systems.	X			

Bidder Response: The Omni*xx* Enterprise Platform provides tools that allow authorized administrators the ability to import/export data from the system which includes the system code tables. The data can be exported out of the Omni*xx* Enterprise platform into XML format which can be easily used with other systems. The screenshots below depict the screens for the export utility.



In addition, the tool used to maintain system code tables allows them to be exported within the tool by selecting the desired code table to export, and then using the Export command available on the menu. A sample code table XML export is shown below.

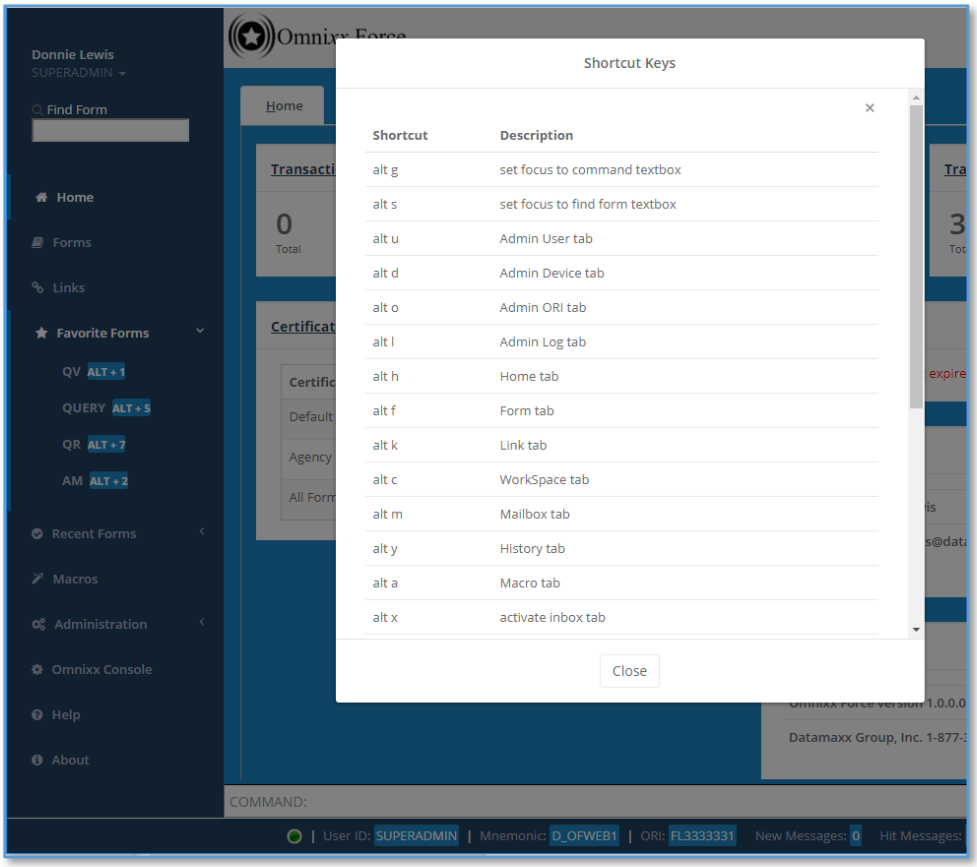
ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
					
MAP-8	The solution should utilize application server technology that allows tasks to be off-loaded onto other computers or processors to prevent a loss in performance as system usage grows.	X			
	Bidder Response: Datamaxx acknowledges that the proposed solution complies with this requirement.				
MAP-9	The MSS application software shall have a minimum of 12 months of warranty against defects.	X			
	Bidder Response: Datamaxx acknowledges that the proposed solution complies with this requirement.				
MAP-10	The MSS application shall use an industry standard programming language.	X			
	Bidder Response: Datamaxx acknowledges that the proposed solution complies with this requirement.				
MAP-11	The MSS application shall have interactive debugging and trace aids.	X			
	Bidder Response: Datamaxx acknowledges that the proposed solution complies with this requirement.				
MAP-12	The MSS application software shall provide fault-tolerant processing.	X			
	Bidder Response: Datamaxx acknowledges that the proposed solution complies with this requirement.				

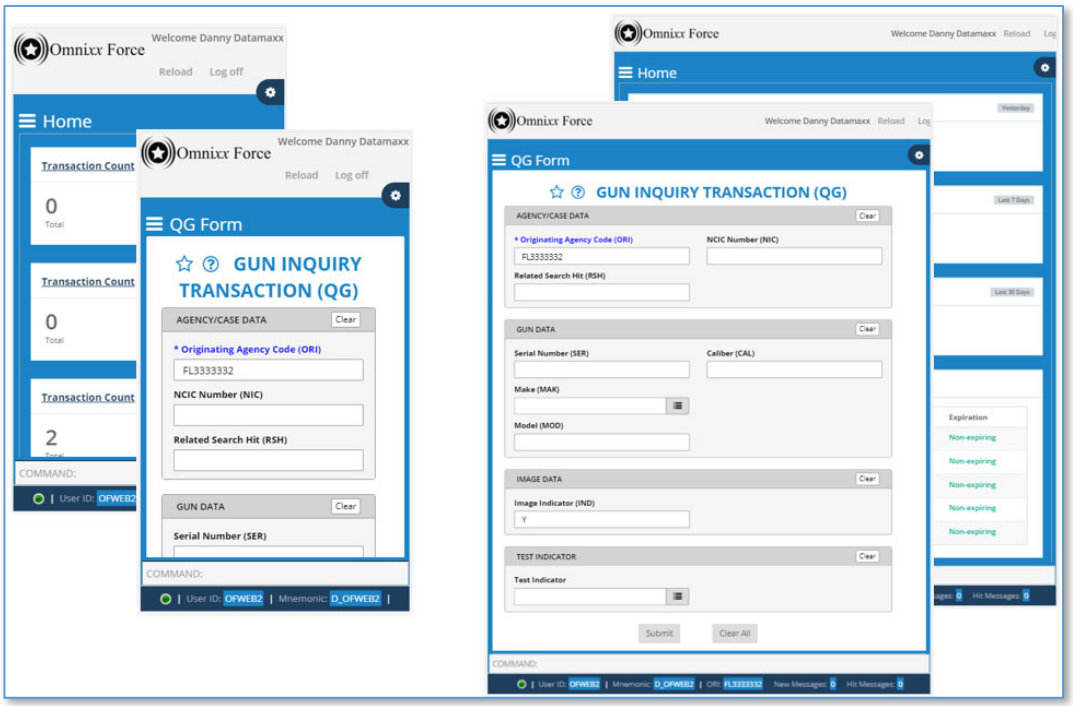
ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
MAP-13	~~The development environment should include version control and provide source code change tracking. It should also track changes to message switch configurations and program modifications.~~				
	Bidder Response: Deleted per Addendum 1.				
MAP-14	The solution shall provide NCIC file transfer capability.	X			
	Bidder Response: Datamaxx acknowledges that the proposed solution complies with this requirement.				

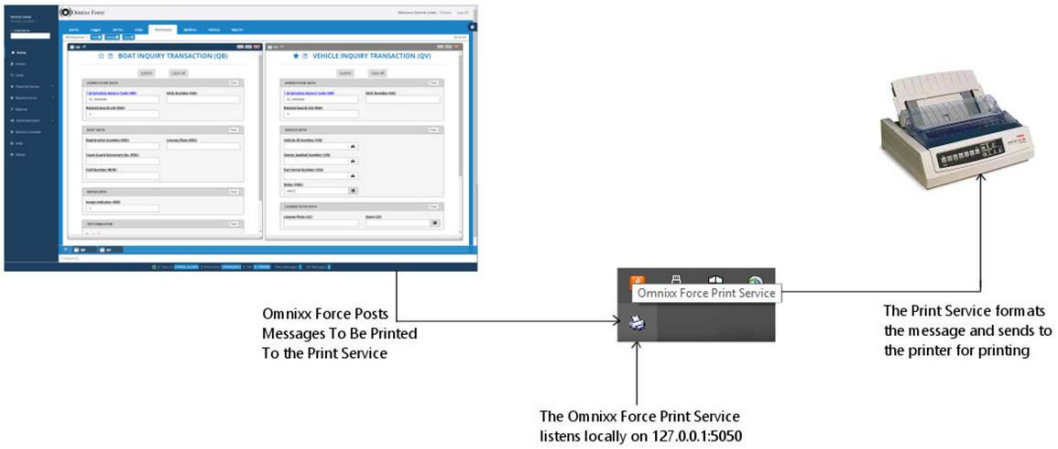
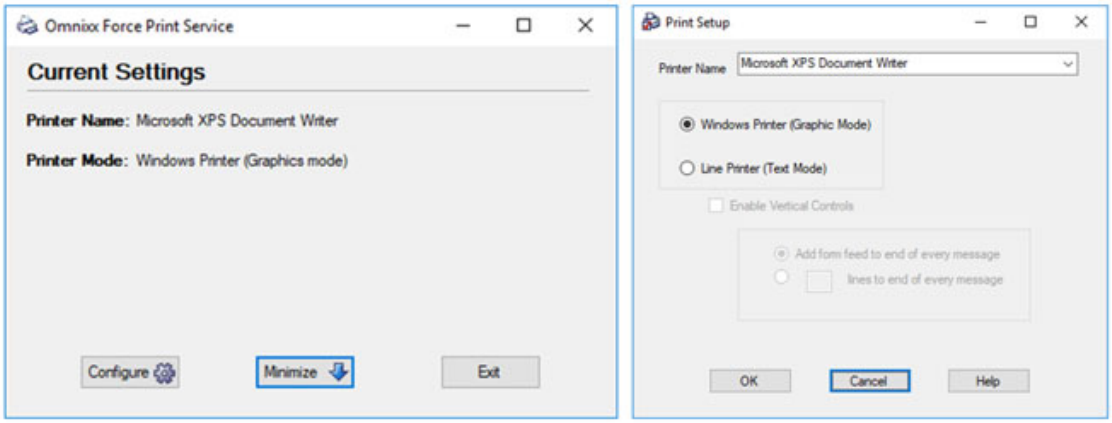
ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
User Interface					
MAP-15	The solution shall allow for the establishment of user accounts and passwords and shall be fully compliant with the guidelines and specifications established in the FBI CJIS Security Policy and NITC Policy.	X			
	Bidder Response: Datamaxx acknowledges that the proposed solution complies with this requirement.				
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.	X			
	Bidder Response: Datamaxx acknowledges that the proposed solution complies with this requirement.				
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.	X			
	Bidder Response: Datamaxx acknowledges that the proposed solution complies with this requirement.				
MAP-18	The solution shall allow users to reset their own passwords.	X			

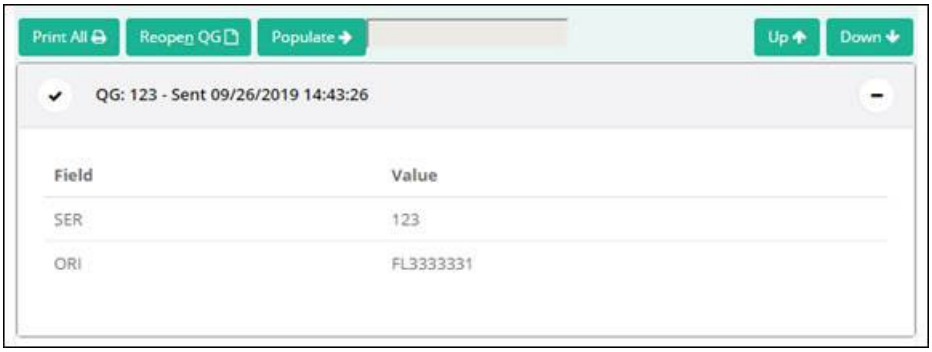
ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
	Bidder Response: Datamaxx acknowledges that the proposed solution complies with this requirement.				
MAP-19	The solution shall allow NSP to define how long a password will remain valid within the secure password attributes established by the current FBI CJIS Security Policy and NITC Policy.	X			
	Bidder Response: Datamaxx acknowledges that the proposed solution complies with this requirement.				
MAP-20	The solution shall provide automatic user account deactivation, based on certification date or cancellation by an authorized manager-level command.	X			
	Bidder Response: Datamaxx acknowledges that the proposed solution complies with this requirement.				
MAP-21	The solution shall utilize user-driven (e.g., user ID, ORI, or combination) security profiles to determine system access to the following: 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.	X			
	Bidder Response: Datamaxx acknowledges that the proposed solution complies with this requirement.				
MAP-22	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: 1. Agency ID (may be user-specified). 2. A unique user ID and password.	X			

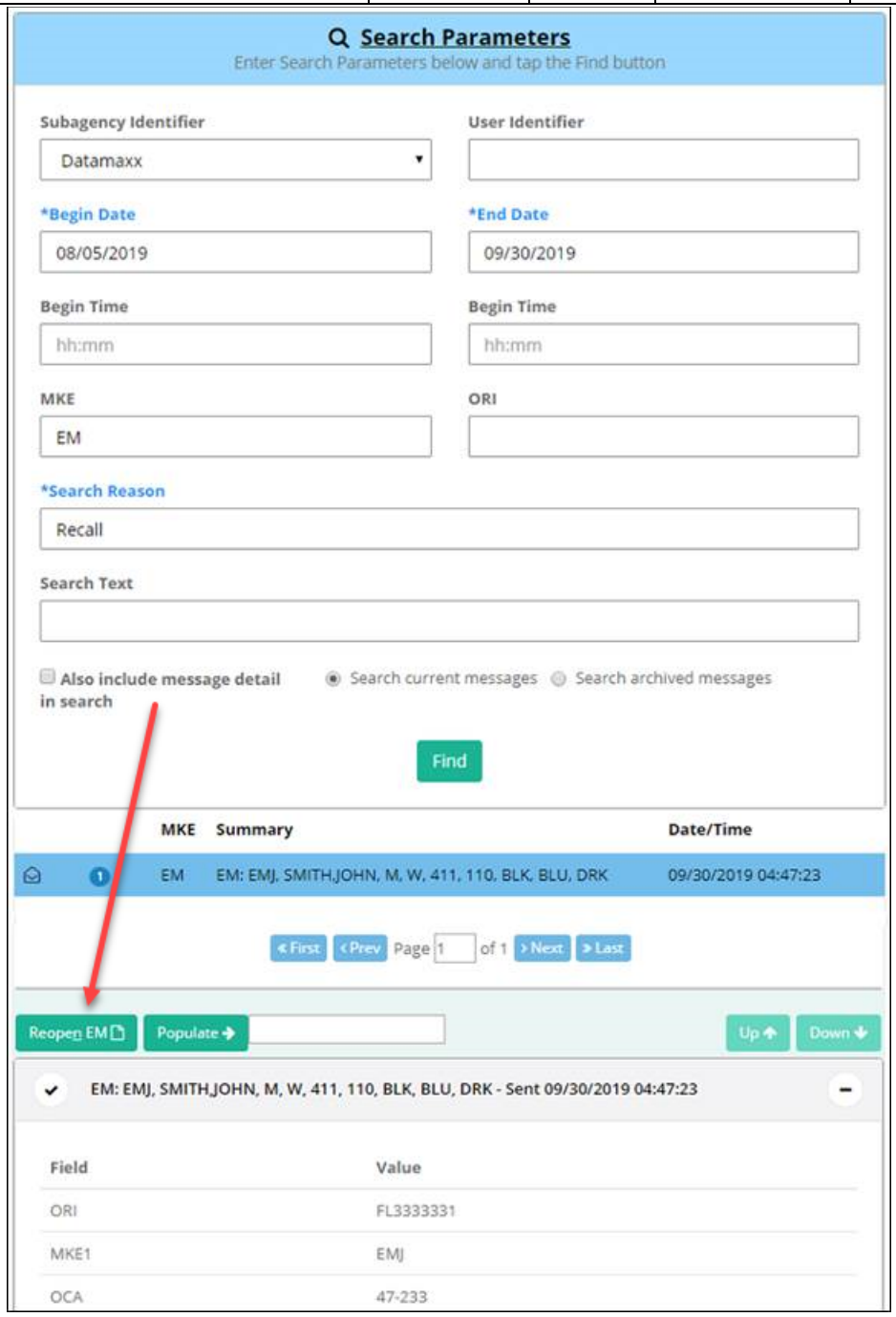
ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
	Bidder Response: Datamaxx acknowledges that the proposed solution complies with this requirement.				
MAP-23	The solution should allow for the ability to change password at setup,at sign-on, and during a logged-in session.	X			
	Bidder Response: Datamaxx acknowledges that the proposed solution complies with this requirement.				
MAP-24	The solution shall comply with the password standards established by the current version of CJIS Security Policy (v5.9.1).	X			
	Bidder Response: Datamaxx acknowledges that the proposed solution complies with this requirement.				
MAP-25	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.	X			
	Bidder Response: Datamaxx acknowledges that the proposed solution complies with this requirement.				
MAP-26	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.	X			
	Bidder Response: Datamaxx acknowledges that the proposed solution complies with this requirement.				
MAP-27	The solution shall produce an audit trail of all user logon transactions, including password resets, for the direct-connect, HTTPS clients.	X			
	Bidder Response: Datamaxx acknowledges that the proposed solution complies with this requirement.				

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
MAP-28	The solution shall allow for the use of pointing devices, hot keys, key combinations, buttons, and hyperlinks.	X			
	Bidder Response: The Omnixx Force end user interface is a robust, responsive web application that supports pointing devices, hot keys, key combinations, and hyperlinks. The screen shot below shows a list of common shortcut keys, and user configurable favorite forms to easily display by pressing the associated key combination. The command bar support quick entry macros for running common inquiries. 				
MAP-29	The solution's client application shall be Web browser-based and utilize best-of-breed Web form design and usability elements.	X			
	Bidder Response: The Omnixx Force end user interface is a robust, responsive HTML5 web application that is browser agnostic, and incorporates best-of-breed web form design and usability elements. It supports HTML5 compliant web browsers including Microsoft Edge, Firefox, Chrome and Safari, including browsers on iOS and android tablets and smart phones. The screenshot below show an example display for smartphones on the left and tablets on the right.				

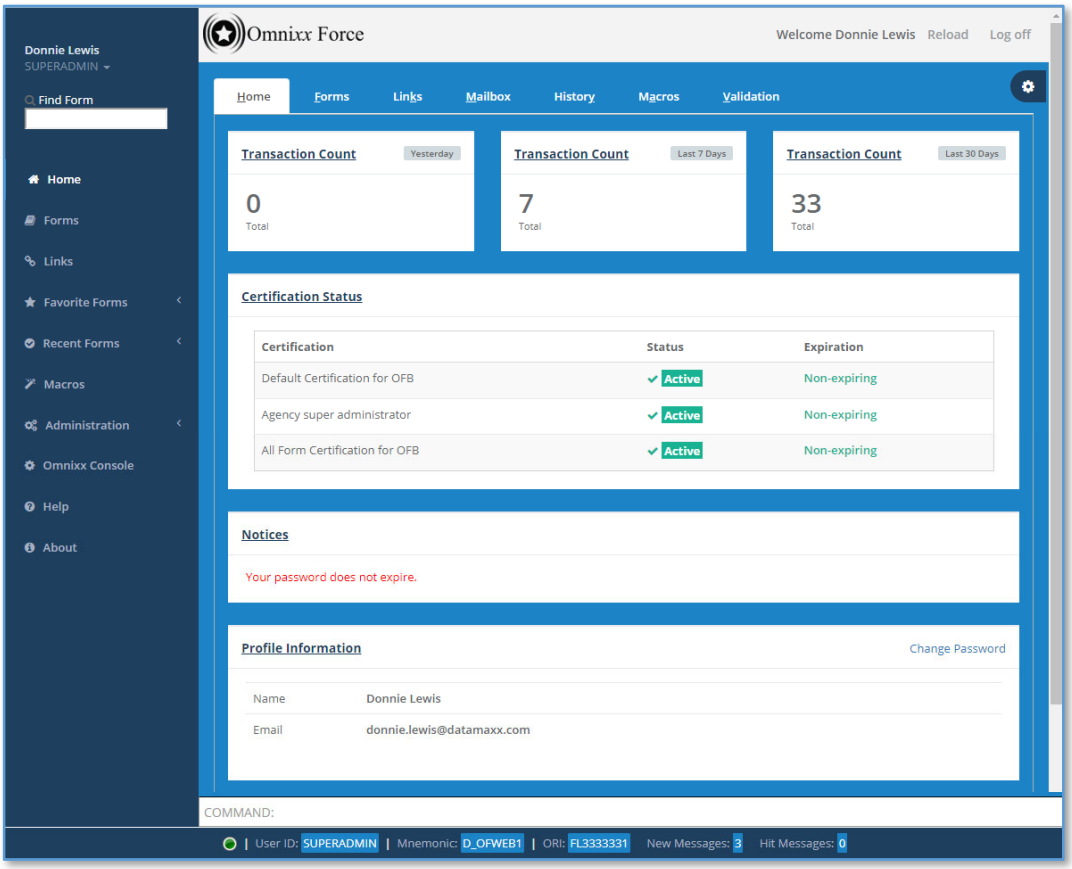
ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
					
MAP-30	The solution's client application screens should be printable to configurable local or networked printers, using print commands provided by the browser. The solution's client application screens should be able to be captured using commands provided by the browser.	X			
	Bidder Response: The Omnixx Force end user client application is a web application where screens can be printed to local or networked printers using browser print commands and can be captured using commands provided by the browser.				
MAP-31	The solution shall allow automatic and/or unattended printing of messages as specified.	X			
	Bidder Response: The Omnixx Force client provides two features for printing automatically, known as AutoPrint and Unattended Printing. Currently, browsers do not provide a way to print without user intervention. To solve this issue, Omnixx Force uses a small Windows tray application (shown below) that acts as the bridge between the browser and the printer. Omnixx Force posts messages to be printed to the Print Service, which formats the message and sends to the printer for printing.				

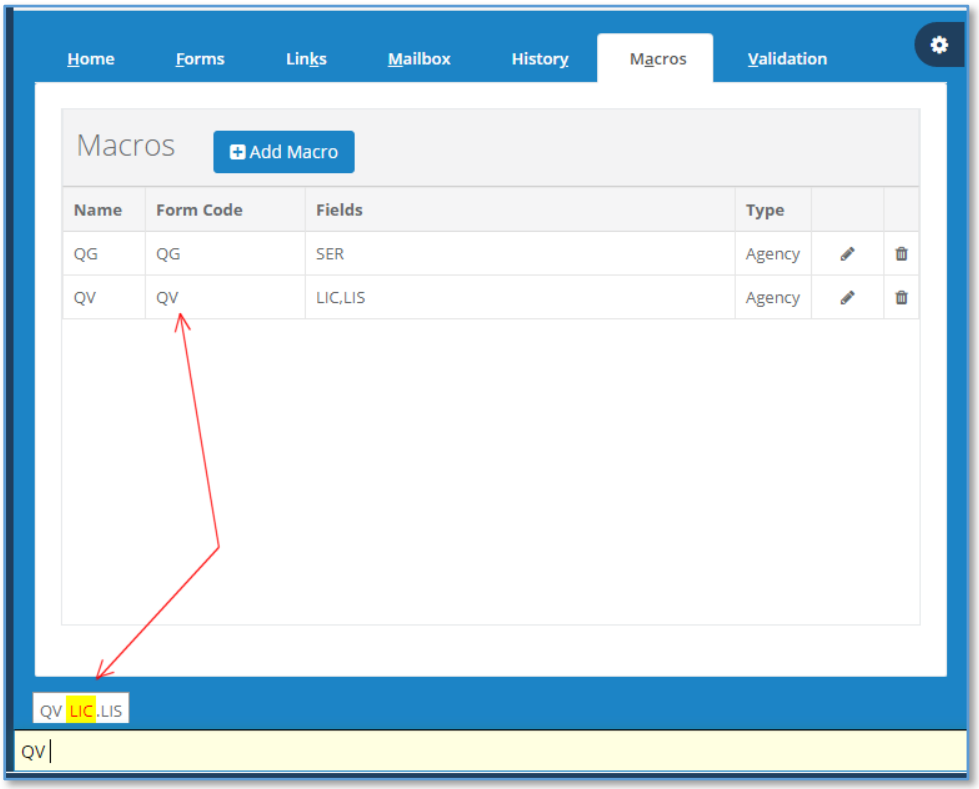
ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
	 The Omni*xx* Force Print Service provides options to select the printer to use for AutoPrint and Unattended Printing. Select a Windows Printer for graphics printing, or a Line printer if using a dot matrix printer. 				
MAP-32	The solution should provide value-added features normally associated with a mail system, including: 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	X			
	Bidder Response: The Omni*xx* Force end user interface supports individual workspaces for users that allows for saving draft message transactions and sending at a later time.				

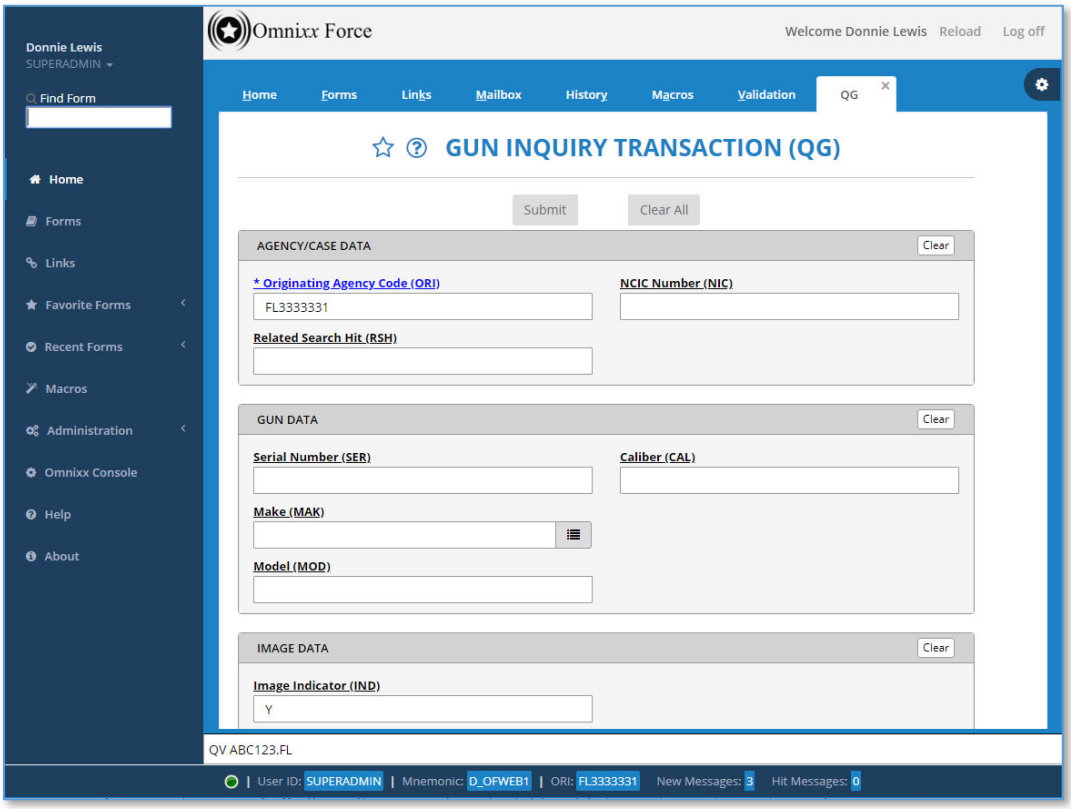
ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
	In addition, users can easily resend messages from the mailbox by selecting the “Reopen” button for the respective transaction. The screenshot below depicts a Query Gun sent transaction. When the user clicks the “Reopen QG” button, the Query Gun transaction is displayed, with the fields from the original sent transaction pre populated. The user simply taps or clicks the Submit button to resend the transaction.  Users can use the History screen to “recall” messages, and then select the “Reopen” button for the respective transaction to display and submit it.				

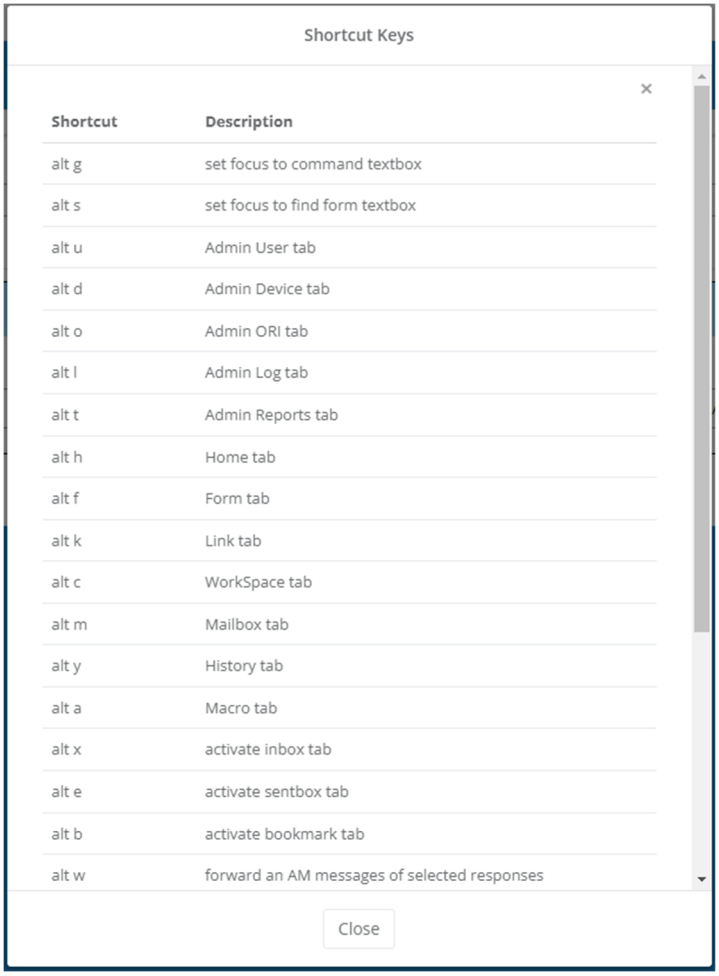
ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
					
MAP-33	The solution shall provide a UI with a single primary inquiry form or presentation that includes common inquiries (80% to 100% of all inquiries available).	X			

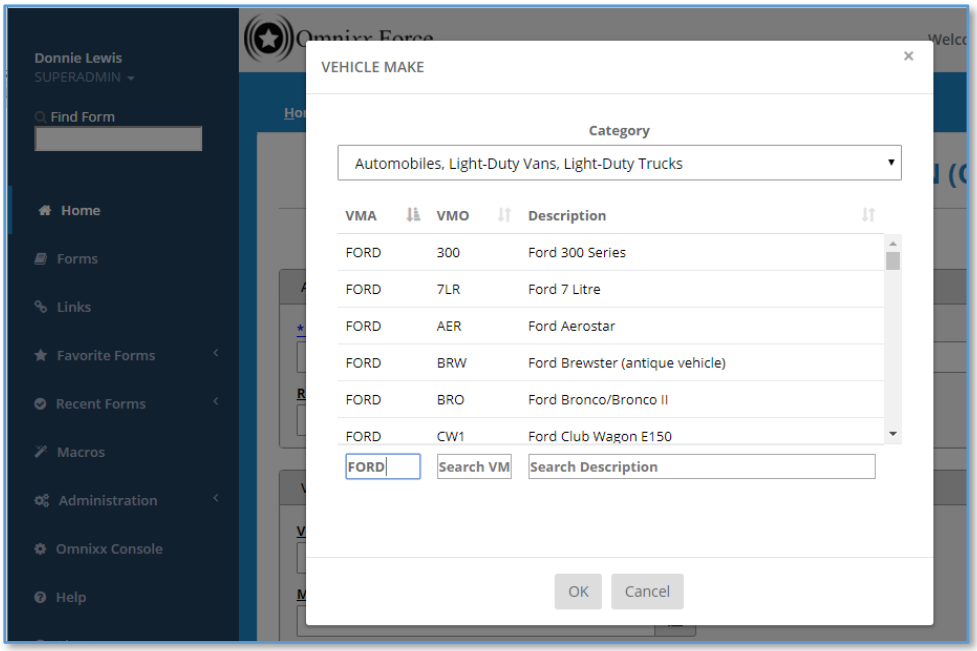
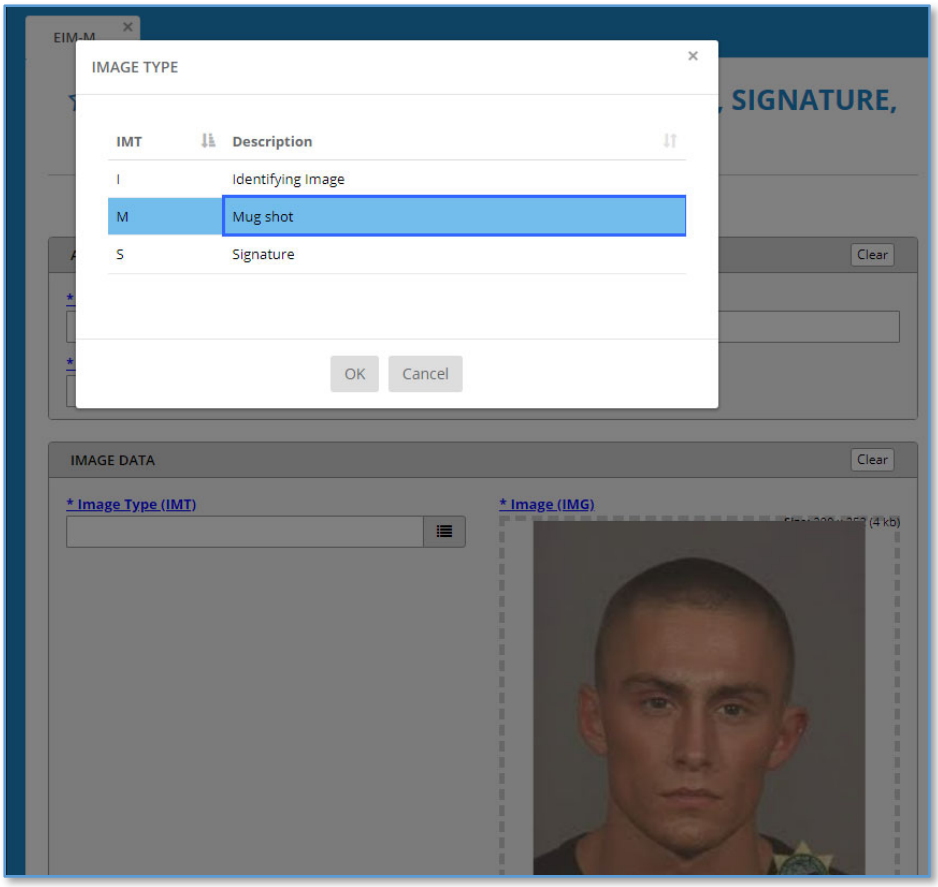
ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
	Bidder Response: The Omni*xx* Enterprise Platform supports spawning logic to be applied to any transaction. Omni*xx* business rules define the logic to be applied, without any changes to core Omni*xx* Enterprise Platform software. This inherent feature allows the user to search multiple external systems and/or databases via a single query. For example, a “Master Query” form can be configured that allows the user to enter a variety of data elements known about the person, vehicle, gun, or article being queried. The Omni*xx* Enterprise Platform business rule processing engine will analyze the transaction, and generate transactions to all configured interfaces based on the data elements received in the transaction. The graphic below depicts a sample Omni*xx* Master Query form. 

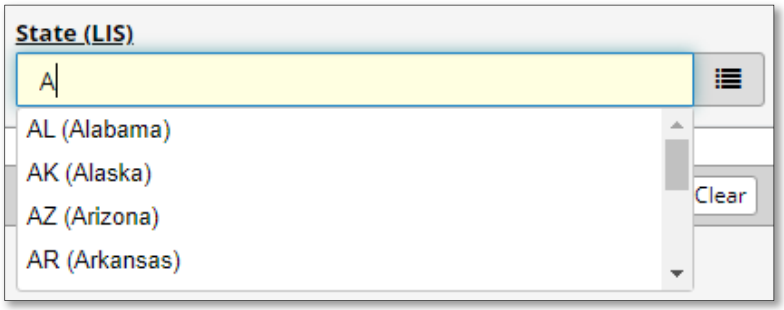
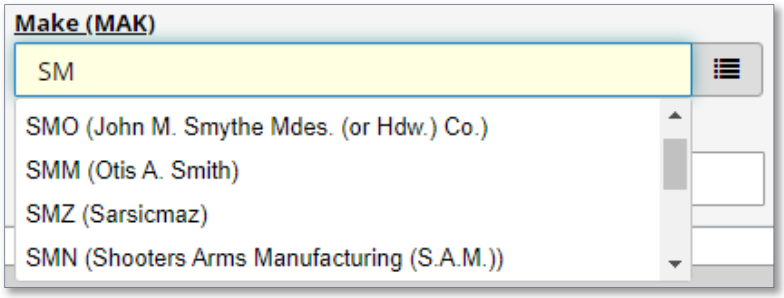
ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
MAP-34	The solution shall provide users with a consistent UI throughout the application, in order to minimize user training and system administration.	X			
	Bidder Response: The Omnixx Force end user interface provides a consistent look and feel in all modules and screens to minimize user training and system administration. This applies to all aspects of the user interface including creating transactions, reviewing responses, managing users, reviewing history, and performing NCIC / NCJIS validations. All accessible from a consistent modern user interface. 			
MAP-35	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.	X			
	Bidder Response: The Omnixx Force end user interface provides quick entry methods to minimize the keystrokes required to perform inquires. This does not affect other operations in forms or work areas.				

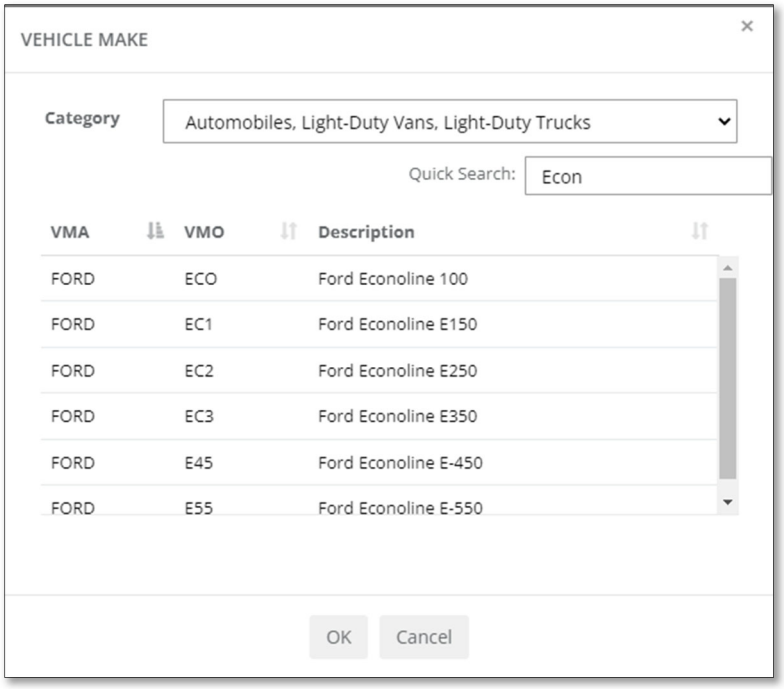
ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
	This feature is known as Macros, and are created using the Macro Wizard to select the associated MKE and Fields to define it. Once defined, users can enter the Macro and Fields on the command bar to quickly execute the associated transaction. For example in the screenshot below, the QV macro enables a user to quickly execute a Query Vehicle transaction by entering the "QV ABC123.FL" at the command prompt and pressing <Enter>. The macro "hint" prompts the user for the license plate (LIC) and license state (LIS) as the user types, reminding the user of the field order for the specified macro. Macro's can only be created by authorized users, and can be created system at the system, agency, and/or user level. 				
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.	X			
	Bidder Response: The Omni*xx* Force end user interface provides a command line, as well as screen forms for user entry. It also supports users being able to enter data on the command line without affecting operations in the forms or other work area. The screenshot below depicts a typical Query Gun screen, which is configurable with the included platform tools, and accessible by authorized users.				

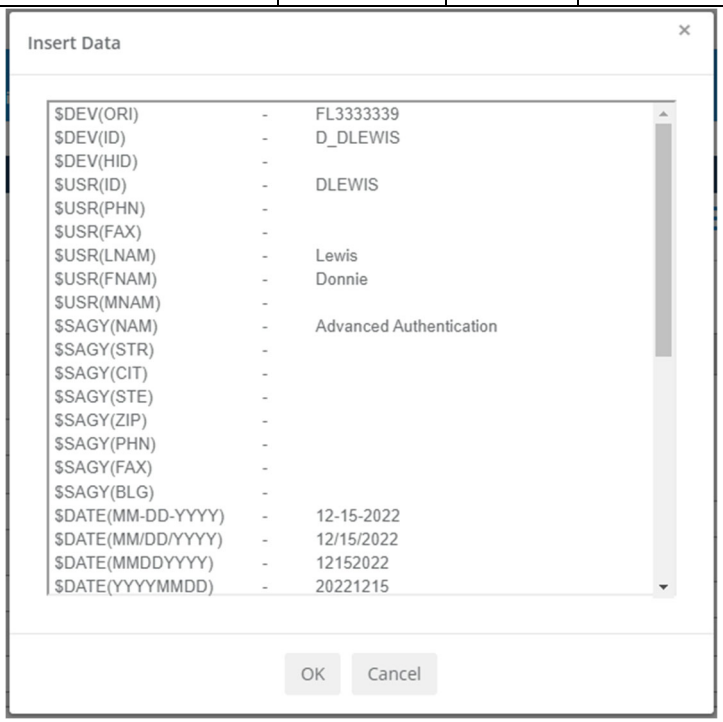
ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
	In addition, the Query Vehicle macro is shown being executed on the command line, which is also made available to authorized users by authorized administrators.  The following screenshot shows the additional shortcut keys to used navigate the application from the keyboard.				

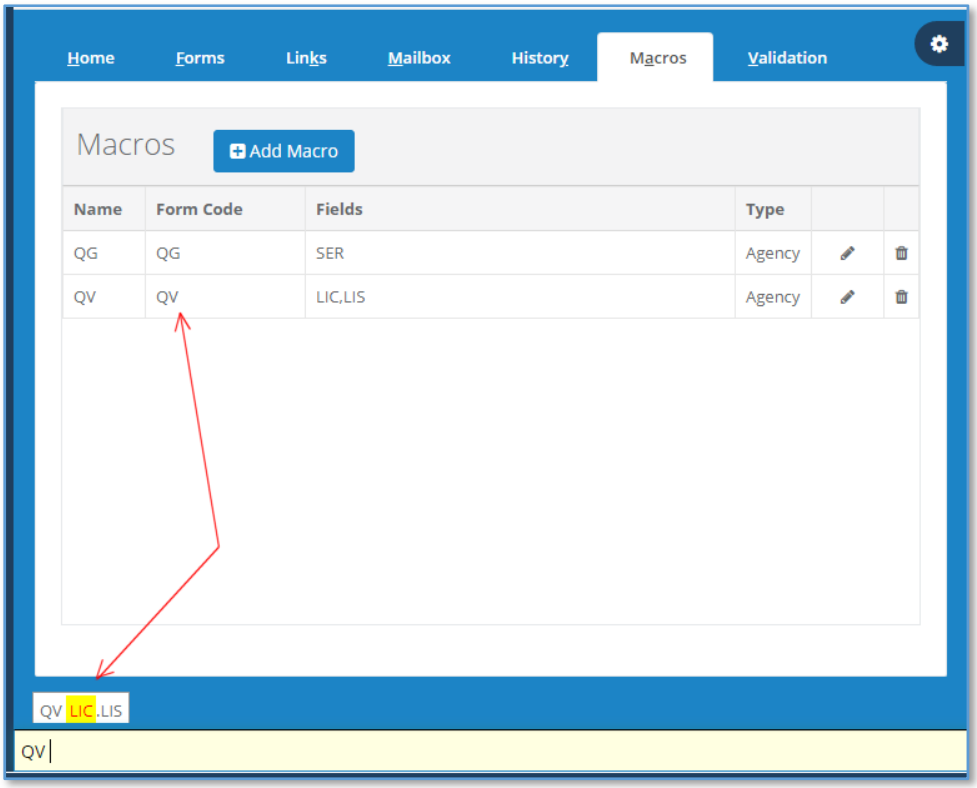
ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
					
MAP-37	The solution shall provide standard UI items, such as drop-down menus, to make selection easier for frequently used fields, such as message keys, all code tables, and agency IDs.	X			
	Bidder Response: The Omni*xx* Force end user interface is a robust, modern, user friendly interface that provides standard GUI items including dropdown menus, type ahead fields, shortcuts, keyboard combinations, command line entry, and tabbing between fields. It is highly optimized and keyboard friendly for end user ease of use.				

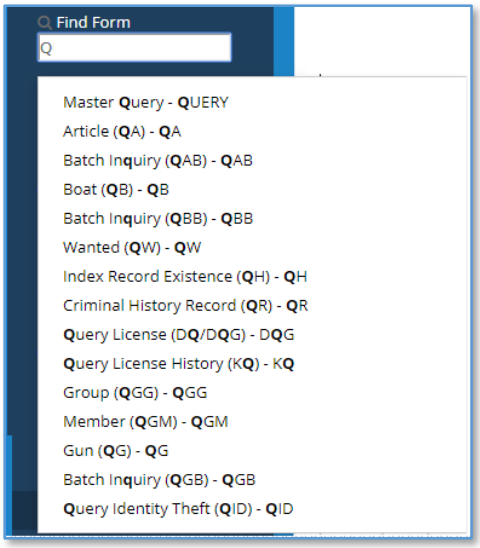
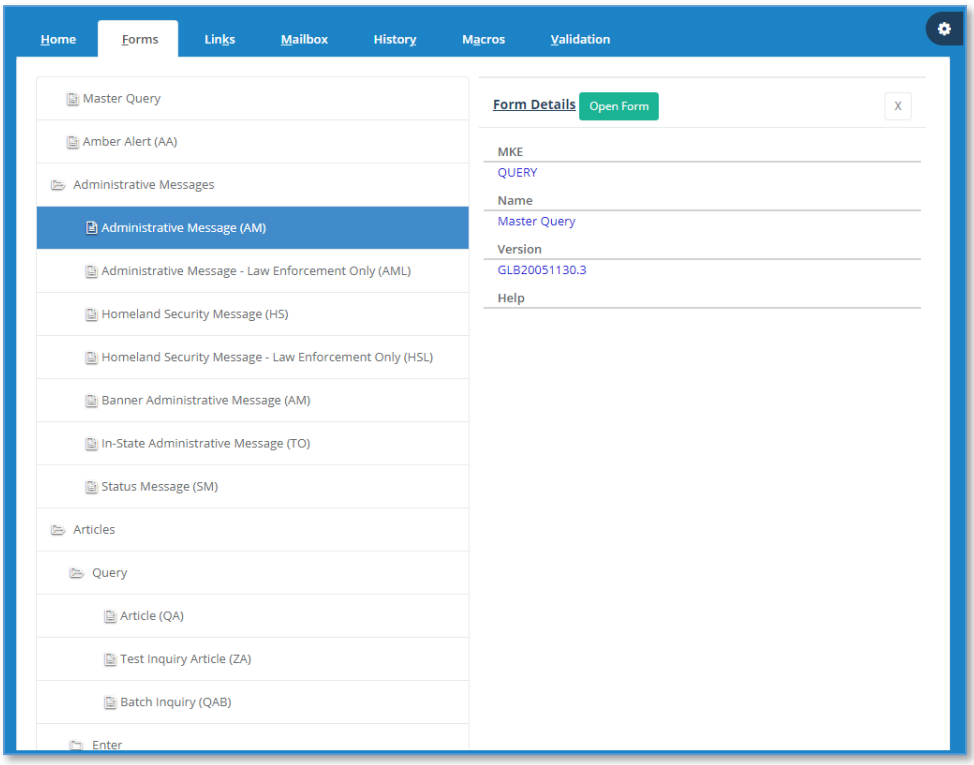
ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
	 				

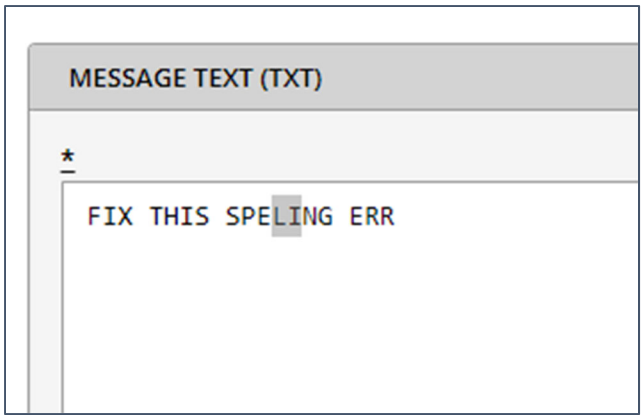
ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
MAP-38	The solution should provide functionality for code table lookups to be narrowed down as the user begins to enter data in the code table lookup field.	X			
	Bidder Response: The Omni*xx* Force end user interface supports “auto complete” functionality for code table lookups as the user begins to enter data. The screenshot below depicts the auto complete functionality for typical State and Gun Make lists.  				

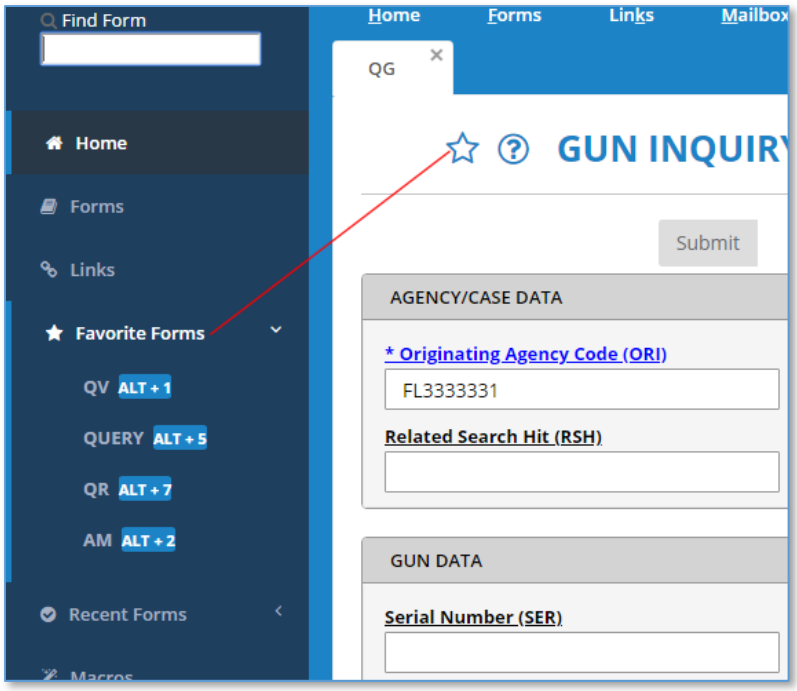
ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
					
MAP-39	The solution shall allow for automated updates to the UI application.	X			
	Bidder Response: The Omni*xx* Force User Interface application is web-based and when updates are applied to the web server(s), users are automatically updated upon their next logon.				
MAP-40	The solution shall utilize prefill fields in appropriate preformatted screens, eliminating redundant data entry without impacting the usability.	X			
	Bidder Response: The Omni*xx* Force end user interface supports prefilling fields on certain screens to avoid redundant data entry. The Omni*xx* Enterprise Platform includes the Applications Business Rules Editor (ARE) that is used to define the “preload” for the appropriate preformatted screens (aka transaction forms). Examples are the default ORI assigned to a device or an Agency Address. A user can also use data strings configured for common data to insert.				

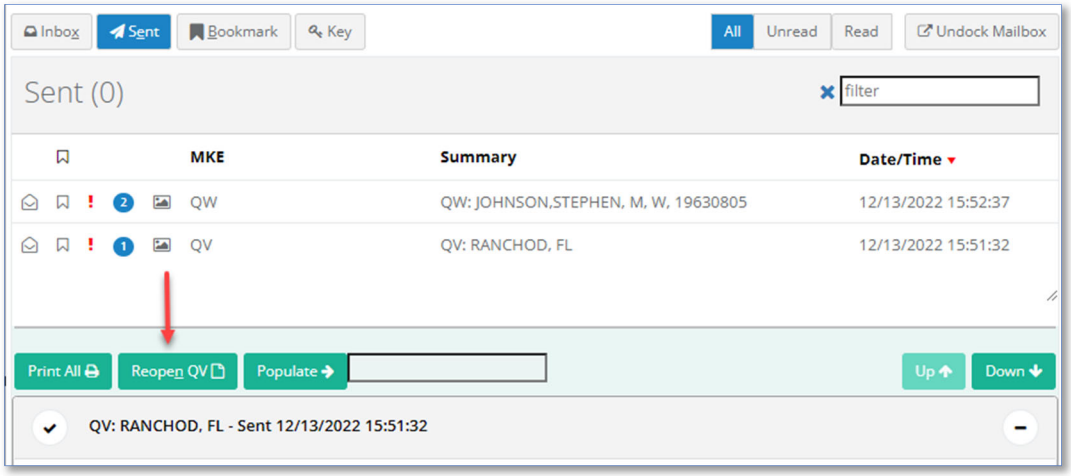
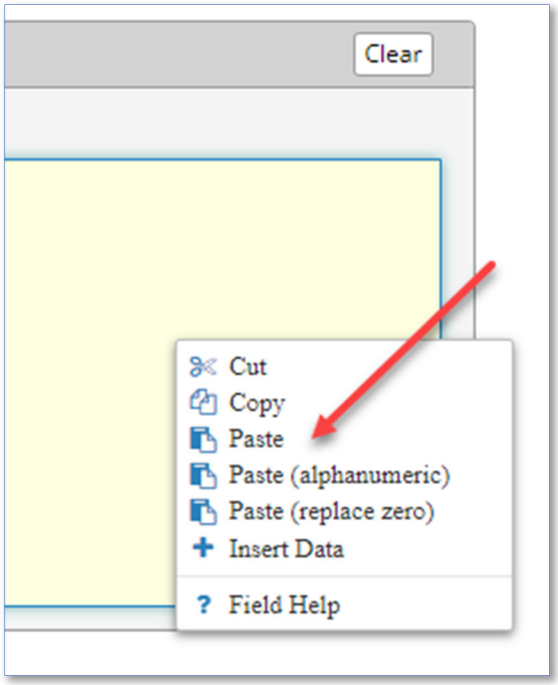
ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
					
MAP-41	The solution shall provide quick entry methods such as hot keys to minimize the keystrokes required to perform inquiries. Such hot keys would enable the entry of single data inquiries on the command line, and the inquiry would then be executed according to the hot key used. The single data inquiries include, but are not limited to: 1. Driver's license number (DLN/OLN). 2. License plate number. 3. Name. 4. Vehicle identification number.	X			
	Bidder Response: The Omni*xx* Force end user interface provides quick entry methods to minimize the keystrokes required to perform inquires. This feature known as Macros, are created using the Macro Wizard to select the associated MKE and Fields to define. Once defined, users can enter the Macro and Fields on the command bar to quickly execute the associated transaction. For example in the screenshot below, the QV macro enables a user to quickly execute a Query Vehicle transaction by entering the "QV ABC123.FL" at the command prompt and pressing <Enter>.				

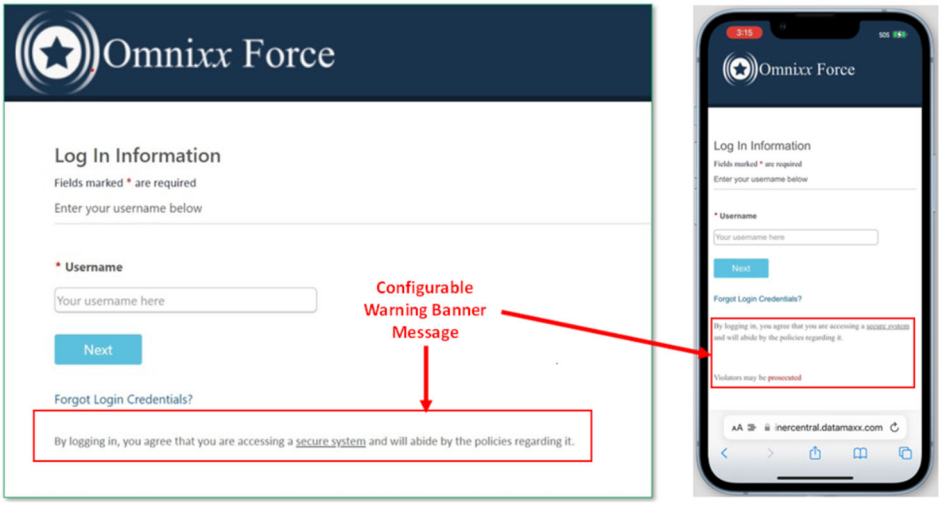
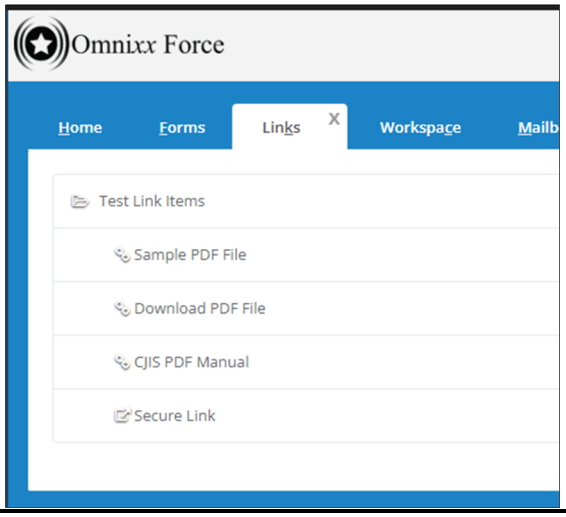
ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
	The macro “hint” prompts the user for the license plate (LIC) and license state (LIS) as the user types, reminding the user of the field order for the specified macro. Macro’s can only be created by authorized users, and can be created system at the system, agency, and/or user level. 				
MAP-42	The solution shall provide menus to facilitate access to less frequently used functions and to aid users with applications used infrequently.	X			
	Bidder Response: The Omni*xx* Force end user interface is a robust, modern, user friendly interface that provides menus to access less frequently used functions. It provides a find feature for less frequently access functions that narrows the list of authorized functions as a user types.				

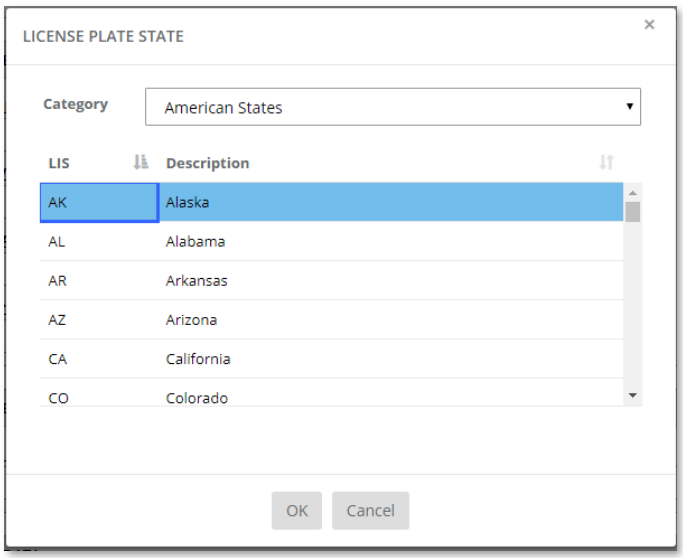
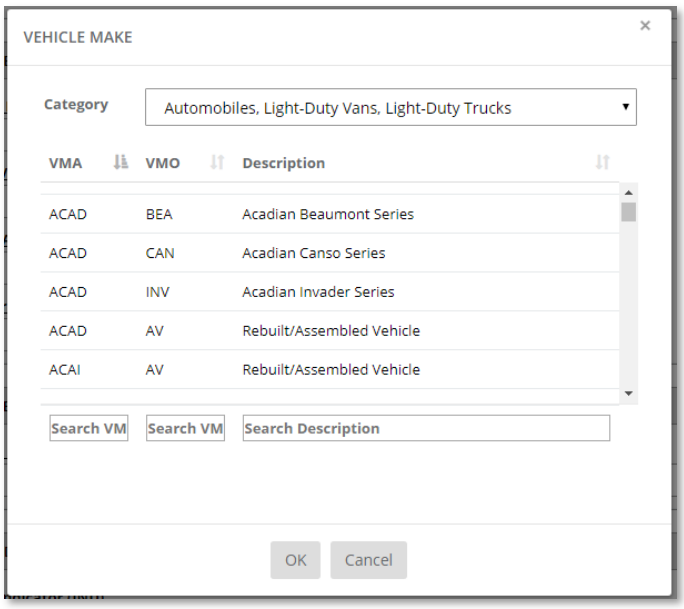
ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
	 				
MAP-43	The solution shall allow users to move forward and backward to complete data fields.	X			
	Bidder Response: Omnixx Force supports move forward between fields using the Tab key, and backward using the Shift-Tab keyboard combination.				

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
MAP-44	The solution shall notify users to correct spelling errors without having to retype the entire field.	X			
	Bidder Response: The Omni*xx* Force end user interface allows users to correct spelling errors without having to retype the entire field. 				
MAP-45	The solution shall provide users with standard form navigation and allow easy movement from one work area to another via mouse or keyboard.	X			
	Bidder Response: The Omni*xx* Force end user interface supports standard form navigation and allows for easy navigation using keyboard and mouse.				
MAP-46	The solution shall provide hot keys for frequently used functions (e.g., opening a form template).	X			
	Bidder Response: The Omni*xx* Force end user interface provides hot keys for frequently used functions and associates them with the user profile. This feature is known as “favorite forms”. A user can make a form one of their favorite forms by selecting the “star” at the top of the form and selecting the associated keystroke combination that will be used to display it. Frequently used functions can also be opened by using the Transaction Form (TF) command on the command line.				

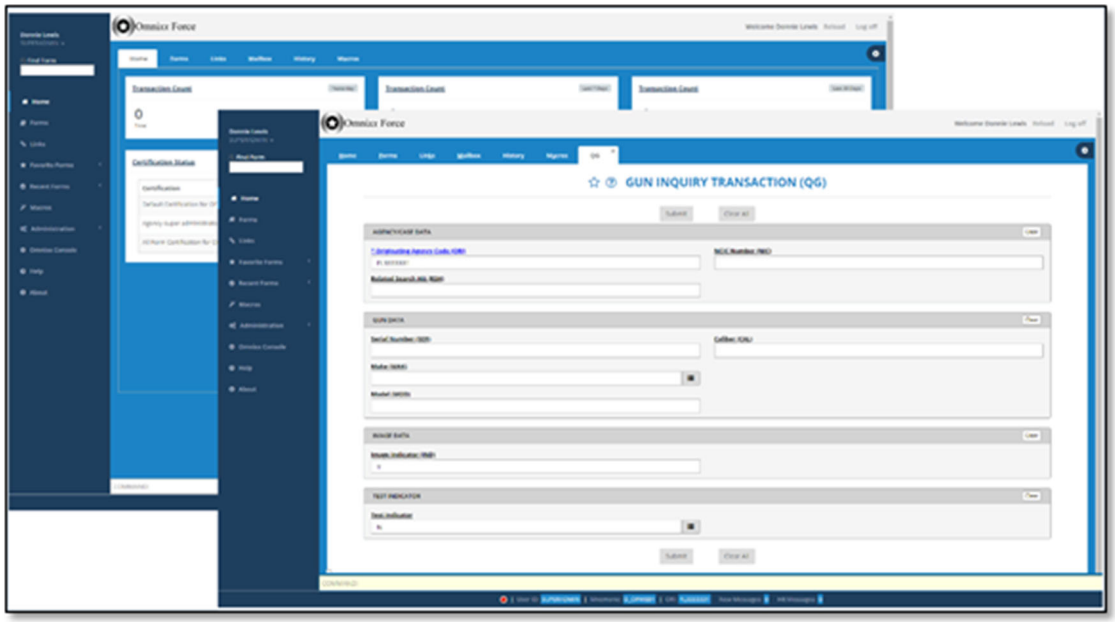
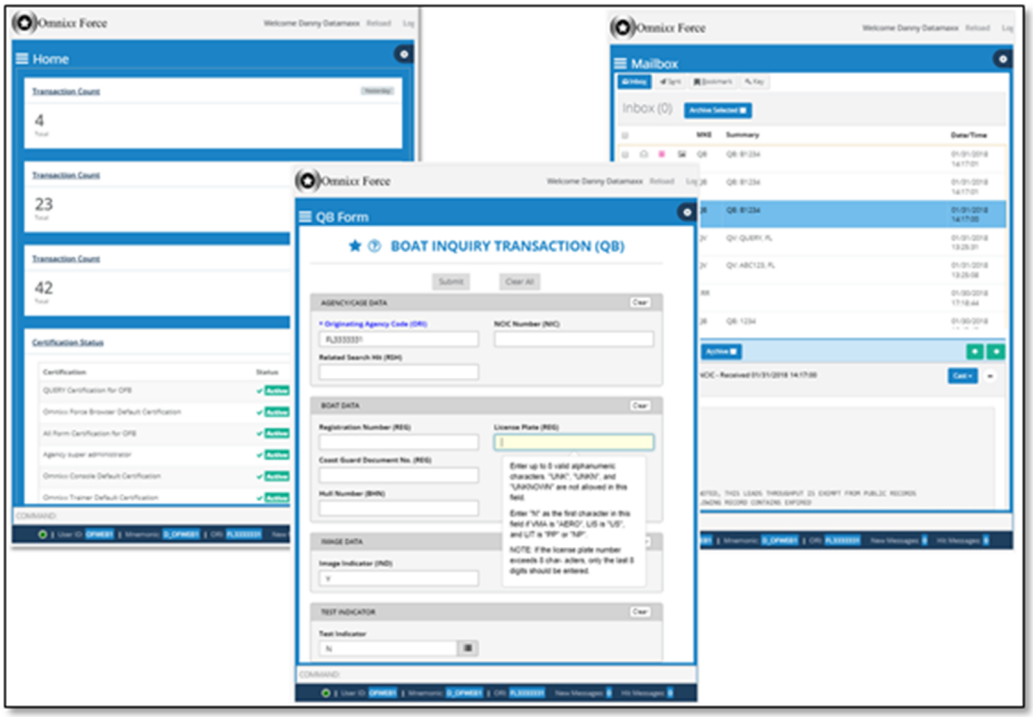
ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
					
MAP-47	The solution shall enable users to recall (configurable by NSP) and resend recently sent messages. The solution shall also provide cut-and-paste functionality.	X			
	Bidder Response: Omni*xx* Force provide the capability to recall any entry, including hot file entries from their Sent box or History search results screen. When selected, the original transaction will be opened and the fields populated with the original entries. Users may resubmit or make changes and then submit. The screenshot below shows the Sent box, and the “Reopen” command, which is used to re-open the original transaction.				

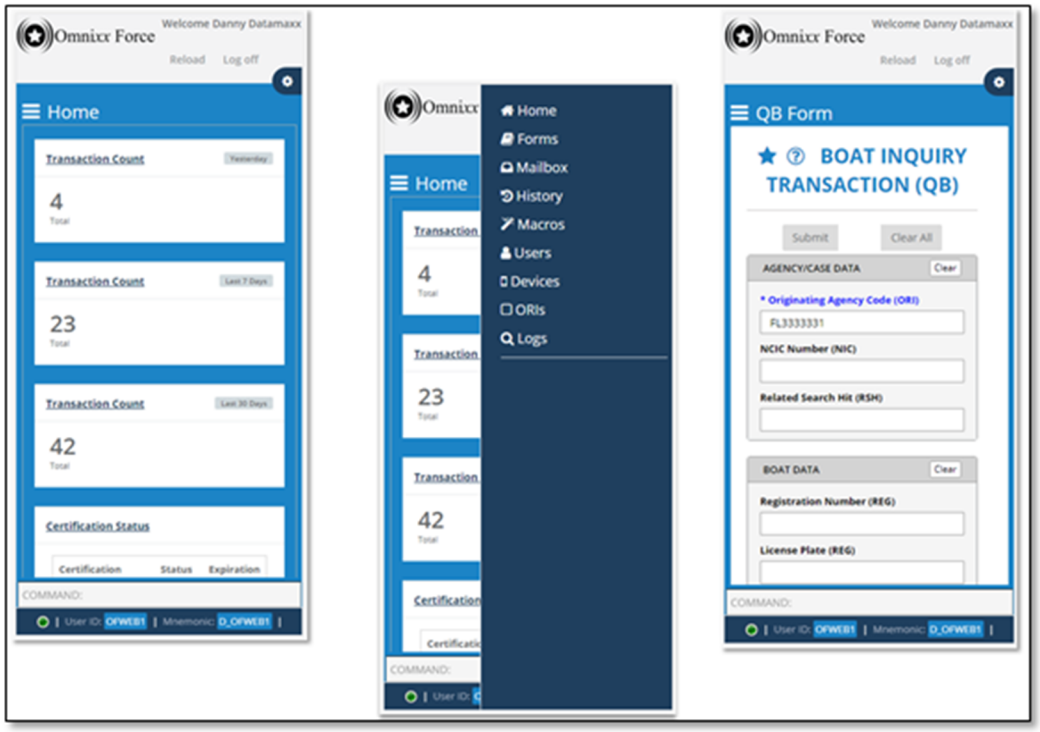
ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
	 Omnixx Force supports standard copy and paste features. In addition to the standard paste feature, Omnixx Force also supports “alphanumeric” Paste, which remove non-alphanumeric characters when pasting, as well as the “replace zero” Paste which replaces the numeric zero “0”, found in many NCIC responses, with the letter “O” when pasting. 				
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.	X			

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
	Bidder Response: The Omnixx Force end user interface supports default configurable values for fields and related fields (e.g. populate VMO when VMA is selected). The Omnixx Enterprise Platform includes the Applications Business Rules Editor (ARE) which is used to define the "default" values and related fields as appropriate.				
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.	X			
	Bidder Response: Omnixx Force provides a configurable warning banner message that is displayed to users on any device during logon.  In addition, the Links tab in Omnixx Force can be used to access configurable links to common word documents, pdf documents, images, and web sites. 				

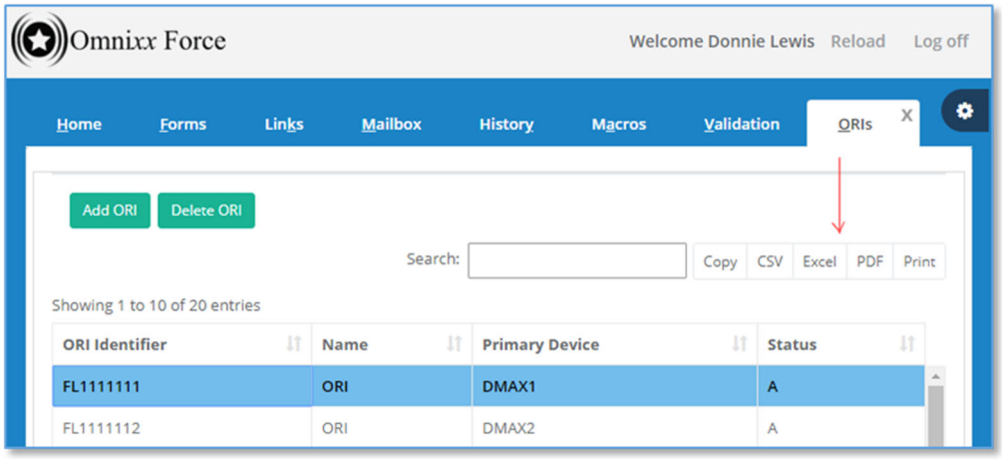
ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
MAP-50	The solution shall provide lookup tables for valid values for fields.	X			
	Bidder Response: The Omni*xx* Force end user interface provides lookup tables for valid values for fields. The Omni*xx* Enterprise Platform includes the Applications Business Rules Editor (ARE) which is used to manage the lookup tables. The screenshots below depict typical State and Vehicle Make & Model lookup tables.  				
MAP-51	The solution should provide stackable	X			

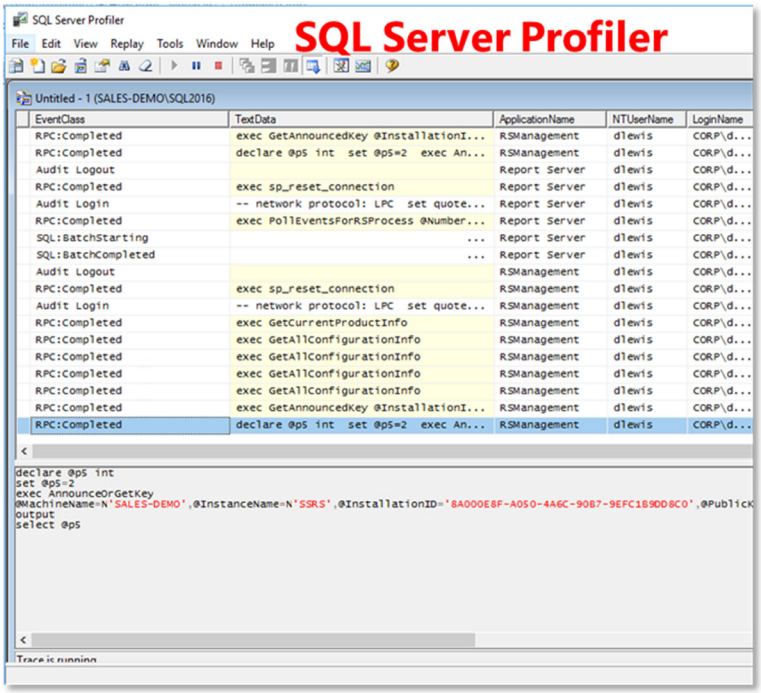
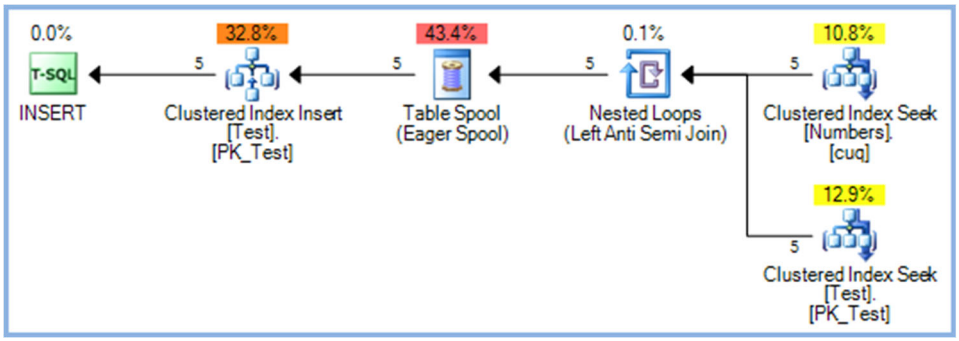
ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
	transactions functionality, such as ~~semi-~~batch processing.				
	Bidder Response: The Omni*xx* Enterprise Platform includes a batch interface that can support processing batch transactions. It supports the standard NCIC Batch Inquiry transactions, including support for persons, guns, articles, and vehicles. The batch interface supports processing a mix of transaction types in the same file.				
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.	X			
	Bidder Response: The Omni*xx* Enterprise Platform® also provides the Omnixx Force® HTML5 end-user interface, which is a high performance, responsive zero-footprint client that runs on desktops, laptops, smart phones, and tablets. It provides an easy to use, modern interface with easy to use fill-in forms and command line entry, and a variety of user options for message display, saving favorites, and workspaces for commonly used forms. The screenshots below depict the interface on a desktop, tablet, and smart phone device. Responsive design is incorporated enabling the interface to adapt to the screen size of the device it is being presented on. In addition, the interface is optimized for mobile users to provide commonly used queries (Person, Vehicle, Article, Boat, and Gun) and provides advanced features for desktop users such as workspaces for multiple forms and mailbox undocking for multi-monitor environments commonly used by dispatchers. Also, command line, configurable keystrokes, favorites, most recently used forms, night mode, and many other properties are saved for each user giving each user the ability to customize the interface for their use.				

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

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
					
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.	X			
	Bidder Response: Mobile Device Management in generally is controlled and managed by the agency as part of an overall mobility strategy, but for Omni*xx* Force it is likely not needed since it is a web app launched in a browser and does not store CJIS or Personal data on the device. However, Omni*xx* Force can co-exist with any Mobile Device Management solution.				

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.	X			
	Bidder Response: The Omni*xx* Force end user interface makes the ORI table information for authorized users allowing information to be extracted and used for other purposes. Select the "Copy" command to copy to the clipboard and paste into another application, or export to comma separated value, excel or pdf file.				

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
	 In addition, all Agency, ORI, Device, etc. information is stored in a SQL Server database and can easily be queried and extracted by authorized administrators using SQL Server Management Studio.				
MAP-55	The solution should utilize relational database solutions.	X			
	Bidder Response: The Omnixx database(s) use relational database techniques in table design, implementing parent tables with relational child tables as needed for configuration and transaction data.				
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.	X			
	Bidder Response: The Omnixx Enterprise Platform stores information in a Microsoft SQL Server database that provides robust tools for access to and manipulation of the database for authorized users. These include a management studio (SSMS), an integration tool (SSIS), and a reporting tool for ad hoc and scheduled reports (SSRS). All data maintained in the Omnixx Enterprise Platform database is managed using the administrative interface. NSP has complete access and can grant various rights to users to manage different aspects of the system. For example, DPS can grant some users the rights to manage certain aspects of the system such as Subagency data while other users may not have those rights. This allows DPS the flexibility to decentralize the management aspects to specific personnel based on their function within DPS.				
MAP-57	The solution should provide tools for monitoring and enhancing database organization and performance.	X			

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
	Bidder Response: The Omnixx Enterprise Platform uses the Microsoft SQL Server tools, including SQL Server profiler and Query Analyzer to monitor, analyze, and performance tuning.  					
MAP-58	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.	X			
	Bidder Response: The Omnixx Enterprise Platform integrates with the Microsoft SQL Server database and implements best practice in database design and development. Datamaxx tracks and documents changes between releases and provide automated update scripts for				

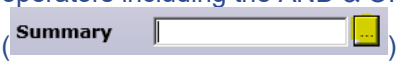
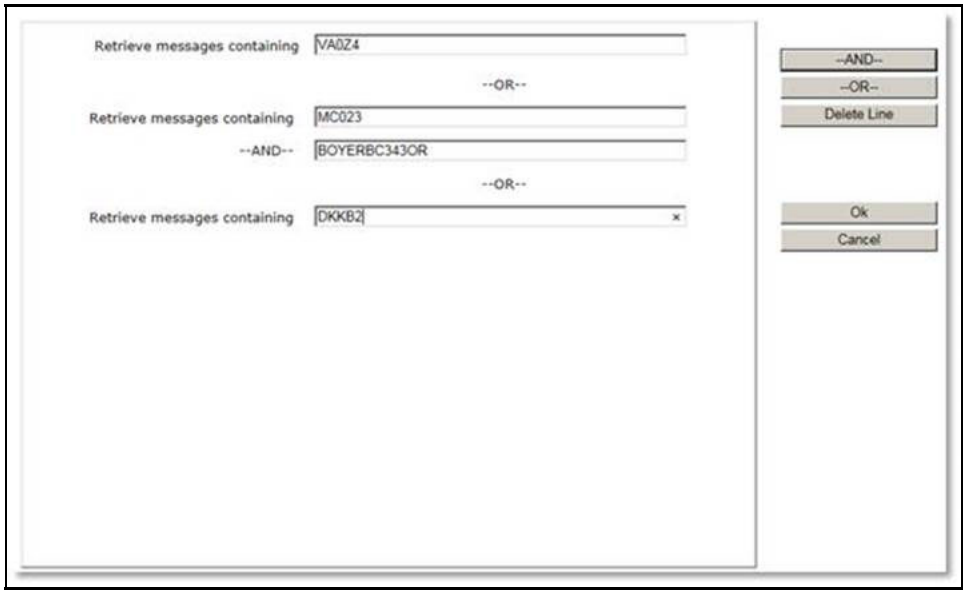
ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
	database maintenance. We consider normalization when designing the database structures and use Microsoft SQL Server Reporting Services for report design and generation.				
MAP-59	The solution should provide for the development and maintenance of relational database structures for the support of MSS.	X			
	Bidder Response: The Omni*xx* Enterprise Platform stores its data in a Microsoft SQL Server database using relational database structures for MSS and Hot Files, which includes tools used for development and maintenance of the platforms database(s).				
MAP-60	The solution shall have the capability to execute scheduled, unattended online system backups with minimal impact to system performance.	X			
	Bidder Response: The platforms database component, Microsoft SQL Server, provides the capability for scheduled, unattended online system backups with minimal impact to system performance.				
MAP-61	The solution shall have the ability to restore from system backups.	X			
	Bidder Response: The platforms database component, Microsoft SQL Server, provides the capability to restore from system backups.				
MAP-62	The solution shall provide robust system backup/archiving tools and strategies.	X			
	Bidder Response: The platforms database component, Microsoft SQL Server, is a very mature product that provides best in class backup and archiving tools and strategies including full and differential backups, scheduled backups and archiving, and online backups, which enable a production database to be online while a backup is performed, with minimal impact on database operations.				

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
Dissemination and Reports					
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.	X			

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
	Bidder Response: The Omni*xx* Enterprise solution employs SQL Server Reporting services which provides processing options to control how and when reports are processed, as well as time out settings for report execution to prevent a single report from overloading system resources. The schedules are created in conjunction with NSP personnel in order to avoid excessively high usage of system resources. The system monitoring tools, as previously mentioned, are used to ensure proper performance levels.				
MPU-2	The solution shall have a report scheduler that can schedule reports to be automatically run at user-defined times.	X			
	Bidder Response: The Omni*xx* Enterprise solution employs SQL Server Reporting services, which provide robust scheduling capabilities for scheduling subscriptions, caching, report history, and report execution to be automatically run at user-defined times.				
MPU-3	The solution shall provide reports, both of real-time and snapshot data, which are publishable.	X			
	Bidder Response: Reports are generated extracting either real time information (current status and processing) or from stored transaction logs. The Reporting Services use HTTP in order to make the reports as usable as possible across multiple media types (Internet, Print, etc.). The reports are posted to a style sheet to be made available locally, printed, or published.				
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.	X			
	Bidder Response: The transaction history is stored in a SQL Server database and the proposed solution provides a search tool called the “Omni*xx* Log Viewer” that provides the ability to search logged messages by any combination of the search fields, including the time period. The Omni*xx* Enterprise Message Log Viewer provides the ability to search logged messages by any combination of the search fields. These include source and destination credentials, ORI, specific fields and free text. The screen shot below depicts the search fields available in the OEP Log Viewer. Multiple field combinations are supported as well as multiple items within a search field by separating them with a comma. For example, entering “QW, QB, QA” in the MKE search field will return records where the MKE equal QW and QB and QA. The same technique applies to the other search fields allow multiple values in each field, and multiple fields simultaneously. The Date and Time search fields can be used to further restrict the date range of the search and free text searches can be entered into the Summary field to include searching the message summary field, and the payload of the message text by selecting the “Include message detail when searching message summary” checkbox. Results may also be ordered by selecting the Asc or Dsc radio options for ascending or descending order.				

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
	 The OEP Log Viewer supports complex search criteria using multiple combinations of Boolean operators including the AND & OR operators. Selecting the "…" button () next to the Summary field will display an interface enabling the operator to construct search criteria including AND & OR in multiple combinations. The NOT operator is a scheduled roadmap item, and will be available upon deployment of the system. 				

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					

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
MIT-1	The solution shall minimally provide the interface and protocol capabilities of the current MSS environment.	X			
	Bidder Response: The Omni*xx* Enterprise Platform is the current MSS environment and currently supports the required interface and protocol capabilities, and has for 10 years. The Omni*xx* Enterprise platform in place today has supported this requirement in the current production environment for 10 years.				
MIT-2	The solution shall interface with NCIC (including full Interstate Identification Index [III] capability) and provide file transfer functionality.	X			
	Bidder Response: The Omni*xx* Enterprise Platform is the current MSS environment and currently supports the required interface with NCIC, including full Interstate Identification Index [III] capability and file transfer functionality. The proposed solution includes the Omni*xx* Message broker, an XML based message switch, which complies with the latest published Nlets technical and functional specifications. The Omni*xx* Message Broker, in place today has supported this requirement in the current production environment for 10 years.				
MIT-3	The solution shall interface with Nlets – the International Justice & Public Safety Information Sharing Network (including full Interstate Identification Index [III] capability).	X			
	Bidder Response: The Omni*xx* Enterprise Platform is the current MSS environment and currently supports the required interface with Nlets, including full Interstate Identification Index [III] capability. The proposed solution includes the Omni*xx* Message broker, an XML based message switch, which complies with the latest published Nlets technical and functional specifications. The Omni*xx* Message Broker, in place today has supported this requirement in the current production environment for 10 years.				
MIT-4	The solution shall interface with the Nebraska Patrol Criminal History (PCH) system. PCH is the state's computerized criminal history (CCH) system.	X			
	Bidder Response: The Omni*xx* Enterprise Platform is the current MSS environment and currently supports the required interface with the Nebraska Patrol Criminal History (PCH) system. The Omni*xx* Message Broker, in place today has supported this requirement in the current production environment for 10 years.				

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
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.	X			
	Bidder Response: The Omni*xx* Enterprise Platform provides the current hot files solution and currently integrates with the Omnixx Message Broker, the XML based message switch that has been in production for 10 years. The Omni*xx* Enterprise Platform provides a complete frame work for transaction-based access, and includes the ability, using configurable business rules to interface to the proposed hot file solution.				
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.	X			
	Bidder Response: The Omni*xx* Enterprise platform in place today has supported this requirement in the current production environment for 10 years. The Omni*xx* Enterprise Platform will seamlessly enable all current regional system interfaces to send properly formatted NCIC messages and transactions. The Omni*xx* Enterprise Platform provides a complete framework for communications handling and queuing, transaction formatting and processing, user and environment management and web service support including the processing of transactions/data as defined by configurable business rules. A major point of difference with the Datamaxx solution is that it “decouples” the communications interfaces from the actual processing by using standard protocols which can be configured through soft set business rules and configurations that are accessible to authorized system administrators. By using a standardized communications strategy, effectively any communications structure and protocol or data source can be integrated into the system, with no changes to the central “core” message processing code. This reduces risk and overhead when making changes to the system. The proposed solution supports a wide variety of protocols (e.g. TCP/IP sockets, Web Services, IBM WebSphere MQ, etc.), and the data content (including control information required for routing and auditing purposes) is controlled by the business rules, and is therefore configurable (not hard coded). The data content strategy is separate from the communications strategy, which provides tremendous advantages when implementing new interfaces, as a “mix and match” of existing components can be configured. The following communications strategies are an inherent part of the proposed solution. • TCP/IP via a sockets interface using the Datamaxx DMPP-2020 specification. • IBM WebSphere MQ Series using the NCIC-2000 specification • TCP/IP via a sockets interface using the NCIC-2000 specification				

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
	• Web Services The following data content strategies are an inherent part of the proposed solution. • XML using the GJXDM and NIEM standards • XML using the OFML standard • Legacy "dot" format using a "trusted Server" concept that allows for remote agencies to maintain context (control) and device routing information in all exchanges. • Legacy "dot" format using a "Device Address Control (DAC)" concept that allows for remote agencies to maintain device routing information in all exchanges. This is a simpler subset of the above-mentioned trusted server and is ideal for small "clusters" of devices as is often found in agencies. This is analogous to the legacy IBM "3270 Controller" strategy. Another significant capability of the proposed solution relates to communications interfaces that fall outside any of the above strategies. The Datamaxx solution supports "External Interfaces". These are free running processes which create an "adapter" between the solution and any data source or communications interface. Datamaxx has supported communications strategies ranging from slow speed RS-232 communications to fully customized database interfaces on remote systems using ODBC. These adapters integrate with the proposed solution and are configured using the business rule process, which is common to all components. The use of the External Interfaces enables any type of data to be accessed, including files that are transferred, or provided on storage. Effectively, any format that can be accessed can be processed. This includes not only content manipulation, but code conversion (e.g. EBCDIC to ASCII), as is often required when accessing mainframe database or file systems. In summary, the proposed Datamaxx solution will easily and seamlessly enable all current regional system interfaces to send properly formatted NCIC messages and transactions. Datamaxx built its corporate reputation on designing and implementing interfaces to regional systems similar to those in NSP.				
MIT-7	The solution shall interface with Nebraska's Department of Motor Vehicles (DMV's) Vehicle Title and Registration (VicToRy) server.	X			
	Bidder Response: The Omni*xx* Enterprise Platform is the current MSS environment and currently supports the required interface with the Nebraska Department of Motor Vehicles (DMV's) Vehicle Title and Registration (VicToRy) server. The Omni*xx* Message Broker, in place today has supported this requirement in the current production environment for 10 years.				
MIT-8	The solution shall interface with the Office of the Chief Information Officer (OCIO) state mainframe for DMV driver's licenses and photos.	X			
	Bidder Response: The Omni*xx* Enterprise Platform is the current MSS environment and currently supports the required interface with the Office of the Chief Information Officer (OCIO) state mainframe for DMV driver's licenses and photos.				

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
	The Omni*xx* Message broker, in place today has supported this requirement in the current production environment for 10 years.				
MIT-9	The solution shall be compliant with, recognize, and allow for data transactions in accordance with the NIEM data model.	X			
	Bidder Response: The proposed solution is compliant with the NIEM data model. Since the proposed Statewide Law Enforcement Message Switch is XML based, it readily complies with NIEM (and GJXDM) standards as well. The proposed system is built completely around open standards, especially with regards to the use of Extensible Markup Language (XML). NIEM, a specific implementation of the XML standard is addressed within the architecture itself. Note that many external systems may not be directly NIEM compliant. However the ability for the proposed system to convert legacy data to a standardized format, and exchange information within and outside the system in NIEM (and other XML standard) formats is a powerful feature of the Omni*xx* Enterprise Platform. Implementations such as NIEM are oriented to database exchanges, as opposed to exchanges from an end user to a database. In order to operate efficiently, especially in the mobile environment where bandwidth is limited, Datamaxx provides "Omni*xx* Force Markup Language" (OFML). OFML is not proprietary – it is an adaptation of the XML standard that is optimized for end user to message processor exchanges. This does NOT inhibit the use of NIEM (and similar strategies) but removes the overhead associated with those structures in the end user environment. Conversion to and from NIEM is performed at the central message processor so that the actual database exchanges are not affected. For any binary data (including images and any other data that is best formatted thusly), full "Base64" encoding support is provided. Typically, standard XML structures do not accommodate binary data such as images easily, unless they are processed in a text-compatible fashion, such as using Base64 encoding. The Omni*xx* Enterprise server and client software components are able to pass the Base64 encoded binary objects, with no alteration, as is used with the Nlets formats. The proposed system can also support legacy text strings and response formats, where needed. Although the system is based around XML because of its emergence as the standard, legacy interfaces still exist. Omni*xx* provides the conversions for those legacy interfaces where needed by which the text data is parsed into XML format for processing, but returned to the requesting interface in text format. Current features of the Statewide Message Switch as it relates to XML include: • Full XML support for Nlets • Full XML support for NCIC • Full support for data transformations, including Information Exchange Model (NIEM) and Global Justice Exchange Data (GJXDM) The Omni*xx* Enterprise Platform provides the interface to exchange data and information in GJXDM or NIEM format. This functionality is inherent in the server software as well as provided through web services and a sophisticated messaging backbone in order to communicate with systems that are not in the CJIS network but rely on GJXDM/NIEM for efficient information				

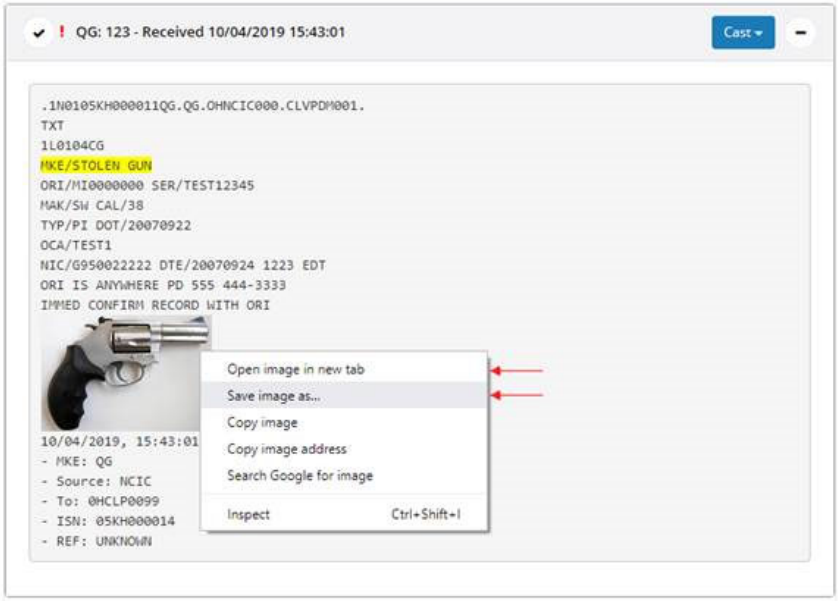
ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
	sharing. Datamaxx provides the capability to interface using GJXDM/NIEM as one of its native data exchange models.				
MIT-10	The solution shall provide transaction-based electronic data access to third-party systems (e.g., DMV, computer-aided dispatch [CAD]) for query/exchange (e.g., Web services, XML, or other transaction-based exchanges).	X			
	Bidder Response: The Omni*xx* Enterprise platform in place today has supported this requirement in the current production environment for 10 years. The Omni*xx* Enterprise Platform provides a complete framework for communications handling and queuing, transaction formatting and processing, user and environment management and web service support including the processing of transactions/data as defined by configurable business rules. A major point of difference with the Datamaxx solution is that it “decouples” the communications interfaces from the actual processing by using standard protocols which can be configured through soft set business rules and configurations that are accessible to authorized system administrators. By using a standardized communications strategy, effectively any communications structure and protocol or data source can be integrated into the system, with no changes to the central “core” message processing code. This reduces risk and overhead when making changes to the system. The proposed solution supports a wide variety of protocols (e.g. TCP/IP sockets, Web Services, IBM WebSphere MQ, etc.), and the data content (including control information required for routing and auditing purposes) is controlled by the business rules, and is therefore configurable (not hard coded). The data content strategy is separate from the communications strategy, which provides tremendous advantages when implementing new interfaces, as a “mix and match” of existing components can be configured. The following communications strategies are an inherent part of the proposed solution. • TCP/IP via a sockets interface using the Datamaxx DMPP-2020 specification. • IBM WebSphere MQ Series using the NCIC-2000 specification. • TCP/IP via a sockets interface using the NCIC-2000 specification. • Web Services The following data content strategies are an inherent part of the proposed solution. • XML using the GJXDM and NIEM standards. • XML using the OFML standard. • Legacy “dot” format using a “trusted Server” concept that allows for remote agencies to maintain context (control) and device routing information in all exchanges. • Legacy “dot” format using a “Device Address Control (DAC)” concept that allows for remote agencies to maintain device routing information in all exchanges. This is a simpler subset of the above-mentioned trusted server and is ideal for small “clusters” of devices as is often found in agencies. This is analogous to the legacy IBM “3270 Controller” strategy.				

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
	Another significant capability of the proposed solution relates to communications interfaces that fall outside any of the above strategies. The Datamaxx solution supports “External Interfaces”. These are free running processes which create an “adapter” between the solution and any data source or communications interface. Datamaxx has supported communications strategies ranging from slow speed RS-232 communications to fully customized database interfaces on remote systems using ODBC. These adapters integrate with the proposed solution and are configured using the business rule process, which is common to all components. The use of the External Interfaces enables any type of data to be accessed, including files that are transferred, or provided on storage. Effectively, any format that can be accessed can be processed. This includes not only content manipulation, but code conversion (e.g. EBCDIC to ASCII), as is often required when accessing mainframe database or file systems.				
MIT-11	The solution should utilize Web services for information exchanges between interfacing applications.	X			
	Bidder Response: Omni*xx* Enterprise platform in place today has supported this requirement in the current production environment for 10 years. The Omni*xx* Enterprise Platform provides fully functional web service interfaces that can be configured to access the NSP environment. The Omni*xx* Enterprise Platform was specifically designed for this environment. The Omni*xx* Enterprise Platform provides the infrastructure to connect existing applications (regardless of the platform) and to compose, expose, and consume new services. This allows NSP to leverage the investments that have already been made in the Web Service enabled applications, and minimize the cost of integrating the new technology that will be acquired. Because the Omni*xx* Enterprise Platform includes tools to connect both proprietary and standards based systems, the Omni*xx* Enterprise Platform is a central part of any web service based strategy for message switching. All products proposed by Datamaxx are based on native XML processing and allow for easy transformation to active standards such as GJXDM and NIEM. The transformation services use XML Style Sheets and similar methodologies, none of which needs programming support again enabling the power and scalability of integrated web service support. This functionality is both built into the server software as well as provided through web services in order to communicate with systems that are not in the CJIS network but rely on GJXDM/NIEM for efficient information sharing. Omni*xx* Enterprise Platform provides a full set of functions for end user access, databases access and external agency access, including NCIC and NLETS. The actual formats and displays are defined by soft settable “business rules” which are defined and maintained on the server using a dashboard that is part of the proposed solution. The business rules can be used to define messages and apply data edit, formatting and routing logic to the resultant transaction. The exposed web services are self-contained and have well-defined interfaces to let the users of those services know how to interact with them. From a technical standpoint, the web services environment creates "loosely coupled" application components, in which code is not necessarily tied to a particular database, or even a particular infrastructure. It is this loose coupling that enables the combination of services into diverse applications. It also enables much greater code reuse, cutting down workload at the same time that it increases the capabilities of the NSP				

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
	solution. Because a service and the client accessing that service are not tied to each other, a service used to process a request could be completely replaced, and the client-services placing request would never know.				
MIT-12	The solution should provide authentication of an electronic report/interface data source.	X			
	Bidder Response: The Omni*xx* Enterprise Platform is the current MSS environment and currently supports the ability to provide authentication of an electronic report/interface data source. The Omni*xx* Message Broker, in place today has supported this requirement in the current production environment for 10 years.				
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.	X			
	Bidder Response: The Omni*xx* Enterprise Platform provides for spawning logic to be applied to any transaction during processing. The spawning logic is contained in configurable business rules, allowing for easy creation and maintenance of spawning to existing or new interfaces.				
MIT-14	The solution should have the ability for authorized users to tailor spawned inquiries.	X			
	Bidder Response: Datamaxx acknowledges that the proposed solution complies with this requirement. The spawning logic is contained in configurable business rules, allowing for easy creation and maintenance of spawning to existing or new interfaces, by authorized administrators.				
MIT-15	The solution shall have the ability to receive and respond to queries from authorized external systems and/or databases.	X			
	Bidder Response: Not only does Datamaxx provide fully functional interfaces to NCIC and Nlets but Datamaxx provides fully functional web service interfaces which can be configured to receive and respond to queries from authorized external systems. The Omni*xx* Enterprise Platform and web service architecture is specifically designed for this environment. The Omni*xx* Enterprise Platform provides the infrastructure to connect existing applications (regardless of the platform) and to compose, expose, and consume new services. This allows NSP to leverage the investments that have already been made in external systems, and minimize the cost of integrating the new technology that will be acquired. Because the Omni*xx* Enterprise Platform includes tools to connect both proprietary and standards based systems, the Omni*xx* Enterprise Platform is a central part of any web service based strategy for message switching. All products proposed by Datamaxx are based on native XML processing and allow for easy transformation to active standards such as NIEM and GJXDM. The transformation services use XML Style Sheets and similar methodologies, none of which needs programming support again				

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
	enabling the power and scalability of integrated web service support. This functionality is both built into the server software as well as provided through web services in order to communicate with systems that are not in the CJIS network but rely on NIEM/GJXDM for efficient information sharing. Omni*xx* Enterprise Platform provides a full set of functions for end user access, databases access and external agency access, including NCIC and Nlets. The actual formats and displays are defined by soft settable "business rules" which are defined and maintained on the server using a dashboard that is part of the proposed solution. The business rules can be used to define messages and apply data edit, formatting and routing logic to the resultant transaction.				
MIT-16	The solution should interface with the Nebraska Sex Offender Registry (SOR) database.	X			
	Bidder Response: The Omni*xx* Enterprise Platform is the current MSS environment and currently supports the interface with the Nebraska Sex Offender Registry (SOR) database. The Omni*xx* Message Broker, in place today has supported this requirement in the current production environment for 10 years.				
MIT-17	The solution shall interface with the Mobile Architecture for Communications Handling (MACH) Automatic Vehicle Location (AVL) system.	X			
	Bidder Response: The Omni*xx* Enterprise Platform is the current MSS environment and currently supports the interface with the Mobile Architecture for Communications Handling (MACH) Automatic Vehicle Location (AVL) system. The Omni*xx* Message Broker, in place today has supported this requirement in the current production environment for 10 years.				

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).	X			
	Bidder Response: The Omni*xx* Force end user interface uses the browsers inherent ability to save and print images independent of the response. Users can right-click on the image and select the 'Save image as…" command to save the image, or "Open image in a new tab" command to open the image in a new tab and then print the image only.				

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
					
MIT-19	The solution shall process images as defined by NCIC.	X			
	Bidder Response: Along with handling all transaction rules and routing, the proposed solution also provides encapsulation for non-text payloads (e.g. NCIC images). This functionality is provided by the use of Base64 encoding that represents the binary data in an industry standard textual format. As an extension, Datamaxx provides an XML defined object that encapsulates the Bas64 encoded data with other control and commentary information so that it may be processed using normal Open Systems tools, such as XML parsers and style sheets. The Datamaxx object is known as the Datamaxx Standard Embedded Object (DSEO), and is widely used in these types of systems and has been adopted as an industry standard, utilized by many agencies and vendors throughout the country. This standard supports NCIC images, but is not limited to them.				
MIT-20	The solution shall provide batch file processing from NCIC (e.g., $.B), if supported by NCIC NIEM.	X			
	Bidder Response: The Omni*xx* Enterprise Platform provides batch transaction processing capabilities. For example, a $.B. administrative message is transmitted to an ORI whenever a file is available for retrieval. This situation occurs when: 1. Excessive hits resulting from an inquiry are transmitted; 2. A response to a batch inquiry is transmitted; 3. A response to an SPRQ is transmitted; 4. A response to an off-line search is transmitted (e.g. statistic data request, error profile request); or				

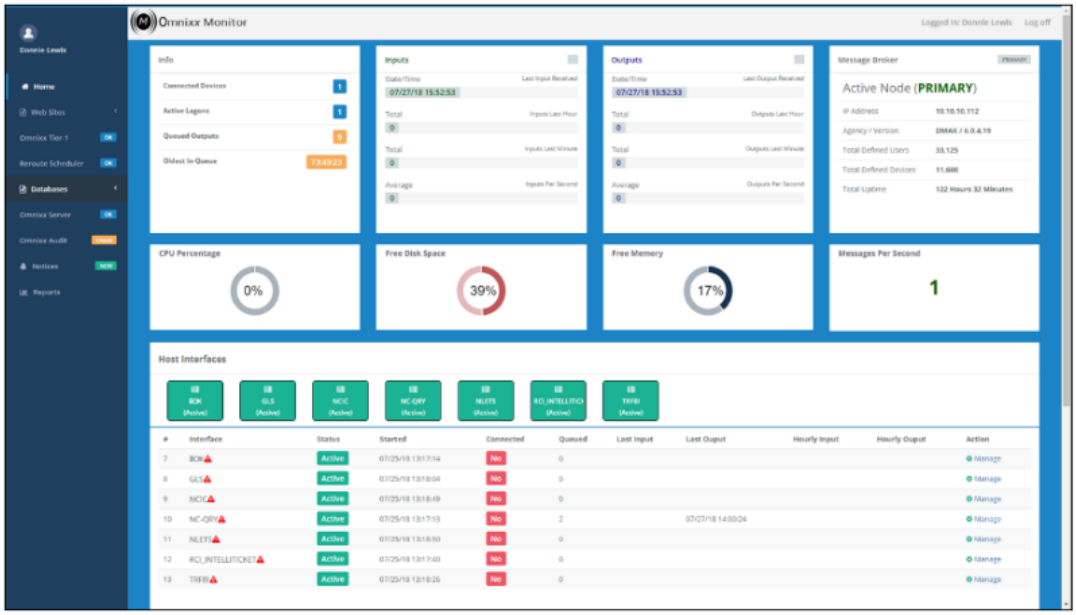
ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
	5. A validation file is ready for transfer. The Omni*xx* Enterprise Platform can provide the necessary batch file processing from NCIC to account for the $.B transaction.				
MIT-21	The solution should access other documents or images stored in a specified repository.	X			
	Bidder Response: The Omni*xx* Enterprise Platform provides a complete framework for communications handling and queuing, transaction formatting and processing, and message routing including the processing of images as defined by configurable business rules. The proposed solution provides encapsulation for various types of attachments, such as images, PDF files, Word documents, etc. This functionality is provided by the Datamaxx Standard Embedded Object (DSEO) specification, which is widely used in these types of systems. The Datamaxx solution supports “External Interfaces”. These are free running processes which create an “adapter” between the solution and any data source or communications interface. Datamaxx has supported communications strategies ranging from slow speed RS-232 communications to fully customized database interfaces on remote systems using ODBC. These adapters integrate with the proposed solution and are configured using the business rule process, which is common to all components. The use of the External Interfaces enables any type of data to be accessed, including files that are transferred, or provided on storage. Effectively, any format that can be accessed can be processed. This includes not only content manipulation, but code conversion (e.g. EBCDIC to ASCII), as is often required when accessing mainframe database or file systems.				
MIT-22	The solution should retrieve, and route images stored in various sources.	X			
	Bidder Response: The Omni*xx* Enterprise Platform provides a complete framework for communications handling and queuing, transaction formatting and processing, and message routing including the processing of images as defined by configurable business rules. The proposed solution provides encapsulation for various types of attachments, such as images, PDF files, Word documents, etc. This functionality is provided by the Datamaxx Standard Embedded Object (DSEO) specification, which is widely used in these types of systems. The Datamaxx solution supports “External Interfaces”. These are free running processes which create an “adapter” between the solution and any data source or communications interface. Datamaxx has supported communications strategies ranging from slow speed RS-232 communications to fully customized database interfaces on remote systems using ODBC. These adapters integrate with the proposed solution and are configured using the business rule process, which is common to all components. The use of the External Interfaces enables any type of data to be accessed, including files that are transferred, or provided on storage. Effectively, any format that can be accessed can be processed. This includes not only content manipulation, but code conversion (e.g. EBCDIC to ASCII), as is often required when accessing mainframe database or file systems.				

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
MIT-23	The solution should retrieve, and route other documents or images stored in a specified repository.	X			
	Bidder Response: The Omni*xx* Enterprise Platform provides a complete framework for communications handling and queuing, transaction formatting and processing, and message routing including the processing of images as defined by configurable business rules. The proposed solution provides encapsulation for various types of attachments, such as images, PDF files, Word documents, etc. This functionality is provided by the Datamaxx Standard Embedded Object (DSEO) specification, which is widely used in these types of systems. The Datamaxx solution supports “External Interfaces”. These are free running processes which create an “adapter” between the solution and any data source or communications interface. Datamaxx has supported communications strategies ranging from slow speed RS-232 communications to fully customized database interfaces on remote systems using ODBC. These adapters integrate with the proposed solution and are configured using the business rule process, which is common to all components. The use of the External Interfaces enables any type of data to be accessed, including files that are transferred, or provided on storage. Effectively, any format that can be accessed can be processed. This includes not only content manipulation, but code conversion (e.g. EBCDIC to ASCII), as is often required when accessing mainframe database or file systems.				

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.	X			
	Bidder Response: The Omni*xx* Enterprise Platform provides a real-time system monitor for status and performance for all system activity. The Omni*xx* Monitor can be configured to send alerts based upon monitored events. For example if a CPU or memory threshold is reached or disk space is low. A screenshot depicting the Omni*xx* Monitor real-time monitor dashboard is shown below.				

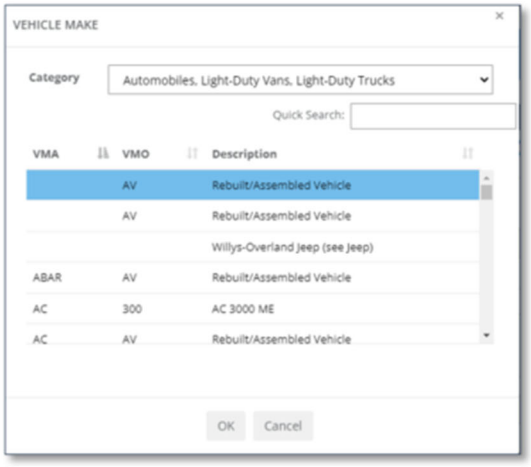
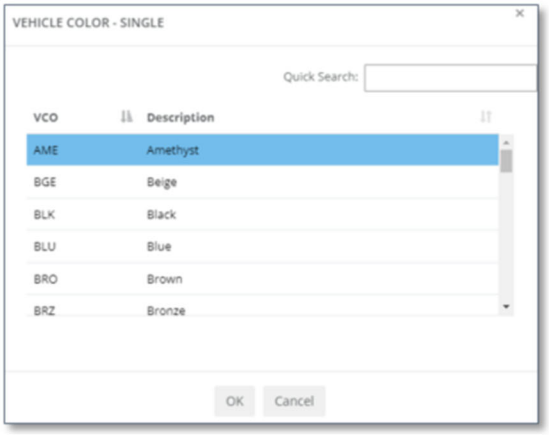
ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
					
MMA-2	The solution should provide for software upgrades/maintenance that do not affect the production system (no downtime) in a load-balanced environment.	X			
	Bidder Response: In a load-balanced environment, this is a very straightforward process in which Datamaxx has successfully performed this same type of upgrade numerous times over the course of our business operation. This process results in a zero downtime cutover.				
MMA-3	The solution shall provide a logging feature that logs entries, changes, and/or deletions to any configuration data (data transaction recovery log).	X			
	Bidder Response: All Omni*xx* database events are logged into a table in the Omni*xx* Enterprise Platform database. Through the use of extensive and robust logging and auditing functions, all entries, changes, and deletions are tracked and audited (and is also searchable).				
MMA-4	The solution shall be designed to allow for remote maintenance and troubleshooting.	X			
	Bidder Response: All maintenance of the system can be performed remotely via the Omni*xx* Enterprise Console. In most cases, troubleshooting can be performed remotely, but the nature of the issue may require access to the system via either Remote Desktop or other such system remote control technology. Only in the event of either a hardware failure or system remote control failure will it be required to access the physical system.				
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.	X			

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
	Bidder Response: All data and time data used by the system is determined by the server in which the Message Broker is running.				
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.	X			
	Bidder Response: Datamaxx provides ongoing services and support during the cloud subscription period. Datamaxx provides client access to the Datamaxx Technical Support group 24x7x365 via a toll-free phone number. In addition to the toll free phone number, Datamaxx offers online access via email. The client may contact Datamaxx Technical support via the following method. a. By Phone (toll free phone number) – (877) 369-8324 b. By E-Mail – support@datamaxx.com As part of the Datamaxx Secure Cloud offering, Datamaxx provides on-line Take-30 Web Training Sessions. The Take-30 Web Training sessions are free to Datamaxx customer with an active subscription or maintenance plan. These brief web-training sessions help ensure you receive the maximum use of your Datamaxx products and provide for on-going training. Various subjects are covered, and time is allotted for question and answer with the trainer. Datamaxx welcomes requests for additional topics for the Take 30 training courses. Each session begins with an overview of the application and then addresses the class subject. Classes are offered in 30 minute increments and can save you valuable time in a mission-critical environment. Datamaxx offers the training sessions numerous times throughout the year and publishes a schedule via the Datamaxx web site: www.datamaxx.com.				
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.	X			
	Bidder Response: The cloud solution proposed by Datamaxx allows a system administrator complete control over the system configuration. The software solution provided, including the Omni*xx* System Administration Console, the MS SQL Server, the Windows Operating System and the backup solution provide mechanisms required to assert control for all the configurable elements. The solution also provides the ability to import and export configurations, thus allowing for configuration change management, rollback and roll-forward processes, and change auditing.				
MMA-8	The solution shall accommodate changes to production applications without impact to operations.	X			
	Bidder Response: The Omni*xx* Solution is a significant move forward in technology as compared to other message switch technology. The Omni*xx* system is primarily configuration based rather than code based. Being configuration based, enables system administrators as				

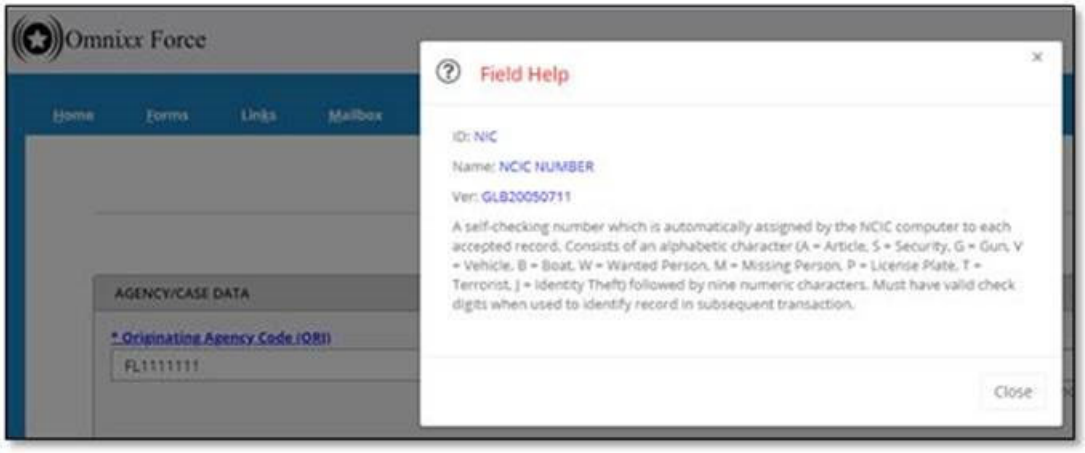
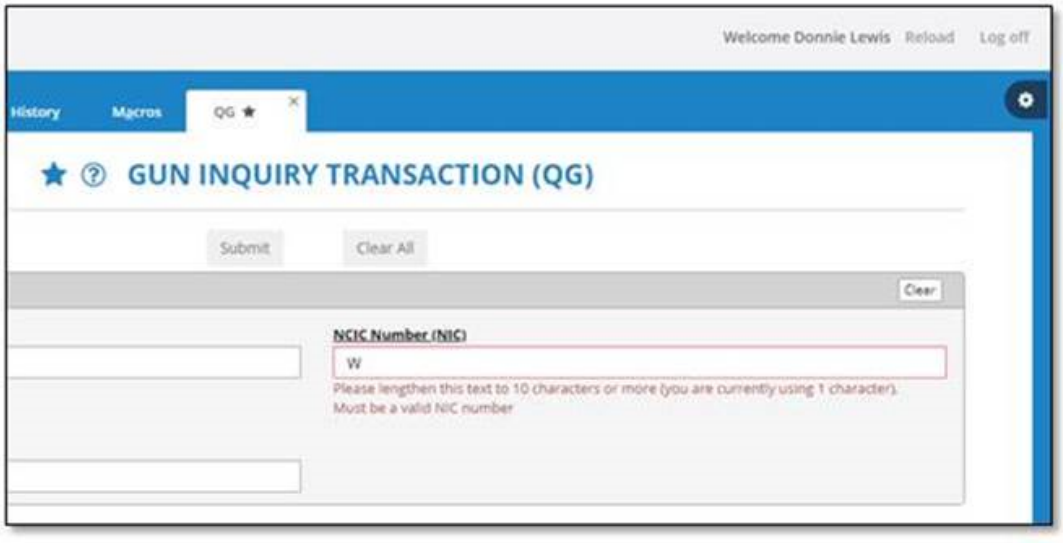
ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
	well as Datamaxx personnel the ability to implement changes through the use of configuration utilities rather than code updates. The changes are made in a "real-time" mode and immediately available and thus limit the need for system upgrades to "update" code as well as operational downtime.				
MMA-9	The solution shall provide the ability to designate control terminals.	X			
	Bidder Response: The proposed solution enables an authorized administrators to configure terminals (*aka devices in Omnixx*) and designate them as control terminals including the name, and optionally limiting which users can use the device or from which specific machine is device is assigned to.				
MMA-10	The solution shall be able to account for multiple time zones. The state of Nebraska contains two time zones.	X			
	Bidder Response: The solution accounts for multiple time zones by storing date/times in the Coordinated Universal Time (UTC) and then converting to the user's local time zone, where appropriate when displaying information.				
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."	X			
	Bidder Response: There will be continuous management of all IT components relative to the solution. This includes regular, iterative updates and upgrades, to ensure software and hardware are always up to date.				
MMA-12	The solution should allow capturing of NCIC lists (e.g., vehicle codes) at the switch, for other systems to download and use.	X			
	Bidder Response: The proposed solution stores NCIC lists as XML documents in the database. This allows the same lists to be shared by the switch and client applications as well as exported for other systems to download and use.				

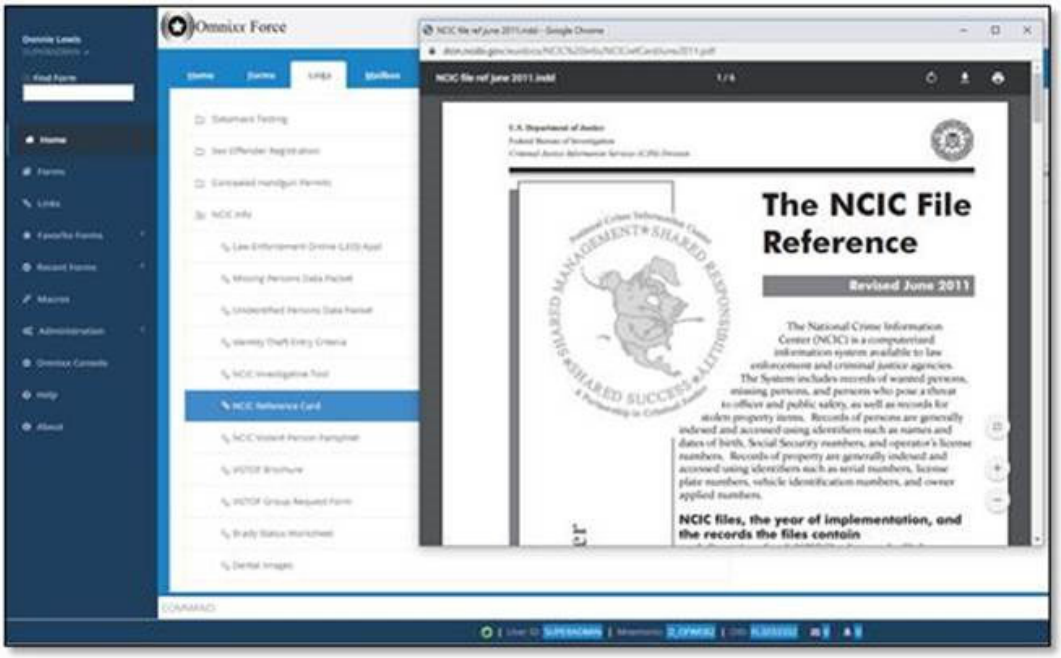
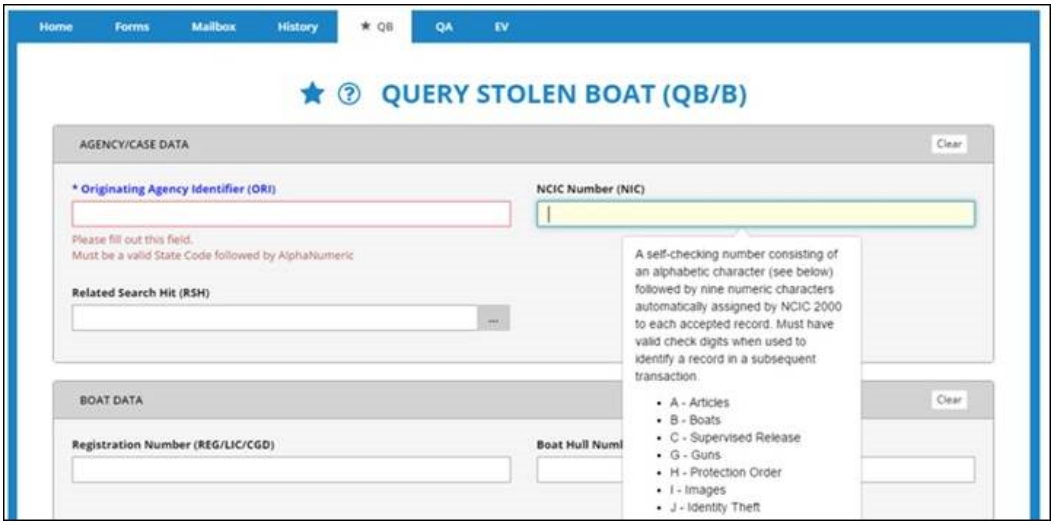
ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
Standards					
	The solution shall be compliant with all national standards and policies outlined	X			

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
	in Attachment B – MSS Operations Plan Specifications, Standards, and Guides 1. FBI NCIC 2000. 2. FBI CJIS Security Policy (V5.9), or latest. 3. NIEM.				
MMA-13	Bidder Response: The Omni*xx* Enterprise Platform are compliant with all of the standards and policies outlined in Attachment B of this RFP. In particular: • Omni*xx* Enterprise is completely compliant with the FBI NCIC 200 standard, and has been since its inception, for all data managed, contained and transacted. • The Omni*xx* Enterprise Platform compliant with the FBI CJIS Security Policy. The Omni*xx* Enterprise Platform supports NIEM for both Nlets and NCIC and has this proposed solution running in production environments, including the Department of Justice and the State of Montana, processing NIEM formats.				
MMA-14	The solution shall be compliant with the Transportation Security Layer (TLS) 1.2 protocol at the minimum.	X			
	Bidder Response: The Omni*xx* Enterprise Platform is compliant with the Transportation Security Layer (TLS) 1.2 protocol and has the proposed solution deployed in many production environments using TLS 1.2 today. Omni*xx* integrates with the Microsoft Windows Server platform, which enables it to support new TLS versions as they become available and are supported across standard industry web browsers (Edge, Chrome, Firefox, and Safari).				
MMA-15	The solution shall meet response time, delivery, and transmittal requirements for NCIC.	X			
	Bidder Response: The proposed solution complies with NCIC response time and performance specifications, within the factors controllable by the solution. NCIC publishes standards for performance in section 5.2 of the Operating Manual. An excerpt from the requirements is as follows: “Average message response time from a CTA to an agency interfaced with the CTA should not exceed 12 seconds after transmission of the inquiry, with two (2) of the 12 seconds allocated to the transmission to, processing by, and return of the response from NCIC 2000 as described in standard 1 above.” There are two factors to consider – the processing of an NCIC request as submitted by a user, with regards to the creation of the correct message format, plus any spawning requirements, and that of the NCIC communications interface itself. The internal processing of a transaction, including data editing and transaction creation and logging is controlled by the “business rules” and happens within 250-500 milliseconds (1/4 to 1/2 of a second). The baseline benchmark for performance is “Occupancy time”. This metric indicates how much time a transaction spends in a processing cycle, from the time that an input				

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
	is received, until all outputs have been generated, and the process is available to accept the next transaction. Occupancy time is a good measure of performance, as it isolates the processing system from external factors such as network speeds and congestions, except for locally accessed systems, such as database storage. With a “multi-thread” approach, as is used in the proposed solution, multiple transactions can be active simultaneously.				
MMA-16	The solution shall use standard NCIC codes and descriptors.	X			
	Bidder Response: The Omni*xx* Enterprise Platform uses standard NCIC codes and descriptors and also provides the tools to make changes to existing code tables and the addition of new code tables by authorized administrators, when Technical Operation Updates are published by NCIC. The screenshots below show a sample NCIC Vehicle Make Code table on the left, and a NCIC Vehicle Color code table on the right. The proposed solution supports all of the NCIC code tables and descriptors out of the box, and they have been running in production sites for 20 years.  				

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
Training, Documentation, and Testing					
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.	X			

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
	Bidder Response: Omni*xx* Force includes a variety of methods to display instructions to the user. These include: • Form/Field Help • Field syntax checking and information • User and Administrator Documentation • Linking capability to additional documents   				

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
	 The Omnixx Enterprise Platform includes the tools to create transaction forms and the associated context sensitive help for forms and fields. In addition, the LINKS menu can be configured to display hyperlinks, and when clicked will navigate to the configured URL. 				
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.	X			

ID	Specification	Current Capability/ Config	Future Release	Custom Development	Not Available
	Bidder Response: The solution proposed by Datamaxx allows the system administrator to configure links to online manuals, including Omni*xx* User Manuals and the NCIC manuals (directly from NCIC).				
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.	X			
	Bidder Response: The solution proposed by Datamaxx allows the system administrator to configure links to online manuals, including Omni*xx* User Manuals and the Nlets manuals (directly from Nlets).				
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.	X			
	Bidder Response: The solution proposed by Datamaxx allows the system administrator to configure links to online manuals, including MSS Manuals.				
MMA-21	The solution should provide the ability to query the MSS manual and to allow automated updates by NSP administration.	X			
	Bidder Response: The solution proposed by Datamaxx allows NSP to configure links to online manuals, including Omni*xx* User Manuals, NCIC manuals, Nlets, and MSS manuals, etc. One of the powerful features of the Datamaxx solution is the ability to allow NSP the capability to add any additional manuals deemed appropriate. NSP would have full access and management over those manuals and could automatically update them as necessary without any impact to the user.				
MMA-22	The solution should provide a detailed user-training program and include a syllabus of each class and sample training manual.	X			
	Bidder Response: During the training plan development period, a detailed user training program will be included. See *Appendix C* for course syllabi and a sample training manual..				