

**6724 Z1 - Revised**  
**Attachment C - Technical Requirements**

Bidder Name: Unisys Corporation

**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.

| <b>Response Box</b>                      | <b>Definition</b>  |
|--|--|
| Current Capability/<br>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:

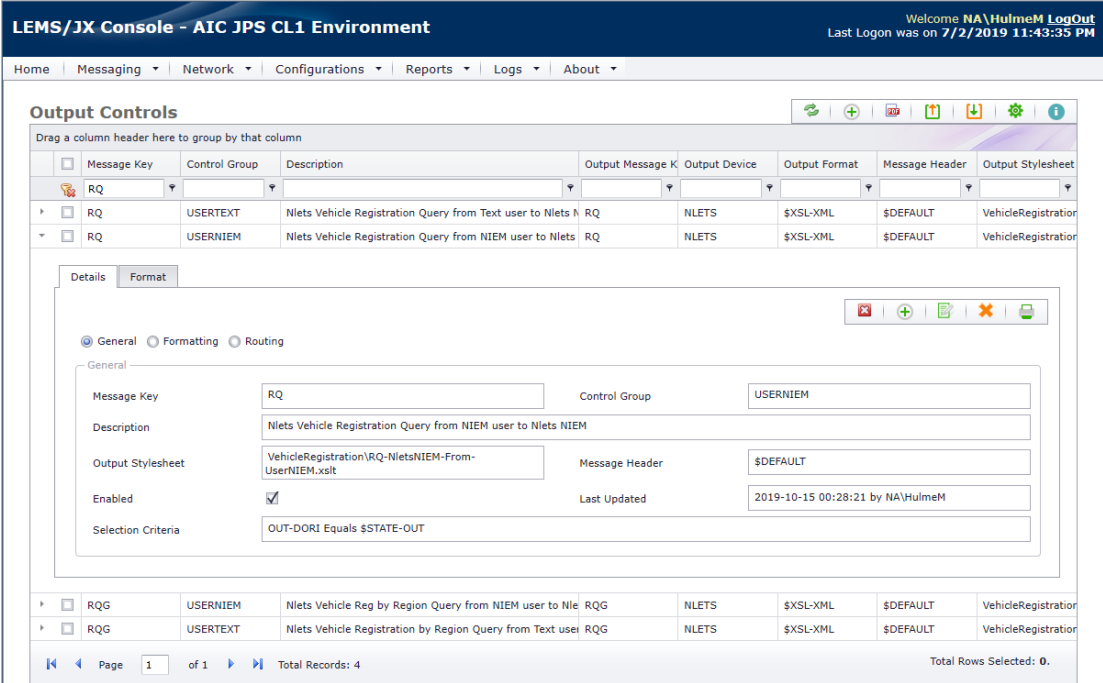
| ID  | Requirement   | Current Capability/<br>Config | Future Release | Custom Development | Not Available |
|---|---|-------------------------------|----------------|--------------------|---------------|
| MBP-5   | The solution shall process batch transactions from local agencies (e.g., processing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

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

**Business Process**

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

| ID                      | Specification   | Current Capability/ Config | Future Release | Custom Development | Not Available |
|-------------------------|---|----------------------------|----------------|--------------------|---------------|
| <b>Business Process</b> |   |                            |                |                    |               |
| MBP-1                   | <p><del>The solution shall accommodate changes to existing message keys by NSP administrators and the addition of new message keys as required, specifically allowing NSP administrators to add new, and change existing, message keys without vendor programming assistance.</del></p> <p>The solution should accommodate changes to existing message keys by NSP administrators and the addition of new message keys as required, specifically allowing NSP administrators to add new, and change existing, message keys without vendor programming assistance.</p> | X                          |                |                    |               |

| ID    | Specification   | Current Capability/ Config | Future Release | Custom Development | Not Available |
|-------|---|----------------------------|----------------|--------------------|---------------|
|       | <p>Bidder Response:</p> <p>LEMS/JX accommodates changes to existing message keys and additions of new message keys by system administrators using the LEMS/JX Console. The LEMS/JX Console has screens to add and update message key configurations using a simple table-driven approach, including message fields, field content validations, field relationship validations, routing, reformatting and transformations, headers, and logging. The diagram below is an example of the Output Control screen used to specify routing and format transformation details.</p>  <p style="text-align: center;"><b>LEMS Output Control Example</b></p> <p>In eAgent 2.0, Message Keys are full configurable and part of the support and maintenance for the software. Our team will work with NPS to configure any needed changes.</p> |                            |                |                    |               |
| MBP-2 | <p>The solution shall minimally provide all functionality of the current MSS environment that is summarized in Section V. Project Description and Scope of Work.</p> <p>Bidder Response:</p> <p>To the best of our understanding, the proposed solution provides all the functionality of the current NPS MSS environment detailed in Section V. Project Description and Scope of Work through a current capability or configurable item.</p>   | X                          |                |                    |               |
| MBP-3 | <p>The solution shall provide transaction-level/group user authorization capabilities.</p>  | X                          |                |                    |               |

LEMS/JX provides the capability to authorize users on a per transaction basis. This is achieved with the concept of Function Groups. A Function Group is a named group of message keys (also called functions or transaction keys). A Function Group can be assigned to each user, device, or ORI. A user is authorized to perform only the transactions specified in the Function Group that is assigned to them. Function Groups are maintained by administrators using the LEMS/JX Console. Authorized administrators can create any number of function groups, add and remove functions from a function group, and assign a function group to users, devices, and ORIs. The following shows an example LEMS/JX Console screen for viewing and managing function groups.

**Function Groups**

Drag a column header here to group by that column

| Function Group                              | Description               |
|---|---------------------------|
| 2   | Inquiry users             |
| CCH-DISP                                    | CCH users                 |
| CONSOLE                                     | Inquiry users             |
| FULL  | Full users                |
| INQ-NOCC                                    | Inquiry with No CCH users |
| <input checked="" type="checkbox"/> INQUIRY | Inquiry users             |

Details | Devices | ORI | Users

Detail Info

Function Group: INQUIRY      Description: Inquiry users

Last Updated: 2019-10-15 01:40:09 by NA\HulmeM

List of Functions

| # | Function ID | Description                                       |
|---|-------------|---|
|   |             |   |
|   | ACQ         | Nlets Commercial Carrier Query                    |
|   | AM          | NLETS Administrative Message                      |
|   | AML         | NLETS Administrative Message-Law Enforcement Only |
|   | AQ          | Nlets Criminal History Additional Info Query      |
|   | AVQ         | Nlets Commerical Vehicle Query                    |
|   | BQ          | NLETS Boat Registration Query                     |
|   | CAQ         | NLETS Stolen Article Query Canada                 |
|   | CBQ         | NLETS Stolen Boat/Motor Query Canada              |
|   | CGQ         | NLETS Stolen Gun Query Canada                     |
|   | CLOS        | LEMS CMD-LOG OFF/CLOSE SESSION                    |

Page 1 of 13 (125 items) 1 2 3 4 5 6 7 ... 11 12 13

**LEMS/JX Console Example for Viewing and Managing Groups.**

The following shows an example LEMS/JX Console screen for adding and removing individual functions from a Function Group. Functions are easily added or removed by double-clicking or drag and drop.

| ID          | Specification   | Current Capability/ Config | Future Release | Custom Development | Not Available |      |   |       |  |       |  |      |                           |      |             |  |  |  |  |
|-------------|---|----------------------------|----------------|--------------------|---------------|------|---|-------|--|-------|--|------|---------------------------|------|-------------|--|--|--|--|
|             | <p>Function Group</p> <p>Function Group ID : <input type="text" value="INQUIRY"/> Description : <input type="text" value="Inquiry users"/></p> <p>Functions Available</p> <table border="1"> <thead> <tr> <th>Function ID</th> <th>Description</th> </tr> </thead> <tbody> <tr><td> </td><td> </td></tr> <tr><td>\$.1</td><td>NCIC HOT FILES OUT OF SERVICE - TEST TEST</td></tr> <tr><td>\$.10</td><td>NCIC 2000 Fingerprint Matching System Out Of Servi</td></tr> <tr><td>\$.11</td><td>NCIC 2000 Fingerprint Matching System Returning To</td></tr> <tr><td>\$.2</td><td>NCIC HOT FILES IN SERVICE</td></tr> <tr><td>\$.3</td><td>NCIC RESEND</td></tr> </tbody> </table> <p>Page 1 of 108 (537 items) 1 2 3 4 ... 108</p>            | Function ID                | Description    |                    |               | \$.1 | NCIC HOT FILES OUT OF SERVICE - TEST TEST | \$.10 | NCIC 2000 Fingerprint Matching System Out Of Servi | \$.11 | NCIC 2000 Fingerprint Matching System Returning To | \$.2 | NCIC HOT FILES IN SERVICE | \$.3 | NCIC RESEND |  |  |  |  |
| Function ID | Description   |                            |                |                    |               |      |   |       |  |       |  |      |                           |      |             |  |  |  |  |
|             |   |                            |                |                    |               |      |   |       |  |       |  |      |                           |      |             |  |  |  |  |
| \$.1        | NCIC HOT FILES OUT OF SERVICE - TEST TEST   |                            |                |                    |               |      |   |       |  |       |  |      |                           |      |             |  |  |  |  |
| \$.10       | NCIC 2000 Fingerprint Matching System Out Of Servi  |                            |                |                    |               |      |   |       |  |       |  |      |                           |      |             |  |  |  |  |
| \$.11       | NCIC 2000 Fingerprint Matching System Returning To  |                            |                |                    |               |      |   |       |  |       |  |      |                           |      |             |  |  |  |  |
| \$.2        | NCIC HOT FILES IN SERVICE   |                            |                |                    |               |      |   |       |  |       |  |      |                           |      |             |  |  |  |  |
| \$.3        | NCIC RESEND   |                            |                |                    |               |      |   |       |  |       |  |      |                           |      |             |  |  |  |  |
| MBP-4       | <p>The solution shall provide a means for real-time, end-user notifications regarding system availability.</p> <p>Bidder Response:</p> <p>The proposed solution provides a means for real-time end-user notifications regarding system availability. When an end-user submits a request, LEMS/JX can be configured to respond to the end user with a message informing them the system they are attempting to access (e.g., NCIC, Nlets, PCH) is down. In addition, an end user can query LEMS for the availability status of a particular connected system. In the case of planned outages, the eAgent 2.0 user interface provides for a system broadcast feature to notify when the system is out for a planned maintenance period.</p> | X                          |                |                    |               |      |   |       |  |       |  |      |                           |      |             |  |  |  |  |
| MBP-5       | <p>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).</p> <p>Bidder Response:</p> <p>LEMS/JX is capable of processing batch transactions from local agencies. It supports standard NCIC Batch Inquiry transactions for persons, guns, articles, boats, securities, and vehicles. In addition, LEMS/JX has a batch processing capability where any type or mix of transaction types can be submitted as a file and run at a specified time with a specified throttle rate.</p>  | X                          |                |                    |               |      |   |       |  |       |  |      |                           |      |             |  |  |  |  |

| ID    | Specification  | Current Capability/<br>Config | Future Release | Custom Development | Not Available |
|-------|--|-------------------------------|----------------|--------------------|---------------|
| 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:**

LEMS/JX handles errors (both user and application) in a consistent manner, with the display of a message that indicates the problem. This is accomplished using configurable capabilities, by message key and input device, for validating message content.

If there is a validation error or any other error resulting in an inability to process or queue the message, LEMS/JX returns a plain English negative acknowledgement message to the requesting user or application that indicates the specific problem. For example, "V1049: The last character of the FBI number must be a digit." The error messages are configurable and managed using the LEMS/JX Console.

Message validation includes validating field content by permitted characters, lookup tables, or algorithms; maximum and minimum lengths; and whether the field is required. It also includes validation by field relationships (for example, if field A is present, field B must be present; or if field A has the value X, fields B and C must not be present). The LEMS/JX Console screenshot in below shows an example field validation screen.

| Order | Field | Required                            | Blank                               | Minimum Size | Maximum Size | Type         | Value            | Table | Secondary Field |
|-------|-------|-------------------------------------|-------------------------------------|--------------|--------------|--------------|------------------|-------|-----------------|
| 1     | SORI  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 9            | 9            | Character    | In               |       |                 |
| 2     | DORI  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 2            | 14           | Algorithm    | ORI-NL2          |       |                 |
| 3     | CTL   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 1            | 10           | Character    | Ins-B()*\$/:;+_, |       |                 |
| 4     | LIC   | <input type="checkbox"/>            | <input type="checkbox"/>            | 1            | 10           | Algorithm    | LIC-NC           |       |                 |
| 5     | LIY   | <input type="checkbox"/>            | <input type="checkbox"/>            | 1            | 4            | Algorithm    | LIY              |       |                 |
| 6     | LIT   | <input type="checkbox"/>            | <input type="checkbox"/>            | 1            | 2            | Single Table |                  | LIT   |                 |
| 7     | VIN   | <input type="checkbox"/>            | <input type="checkbox"/>            | 1            | 20           | Algorithm    | VIN-1981         |       |                 |
| 8     | VMA   | <input type="checkbox"/>            | <input type="checkbox"/>            | 1            | 24           | Algorithm    | VMA-VMO          |       |                 |
| 9     | VYR   | <input type="checkbox"/>            | <input type="checkbox"/>            | 1            | 4            | Algorithm    | CUR-YEAR1        |       |                 |

**Example of Field Validation Screen.**

The LEMS/JX Console screenshot shows an example cross-field (relationship) validation screen.

| Order | Type     | Primary Field | Selected Fields | Test Field | Test Value |
|-------|----------|---------------|-----------------|------------|------------|
| 1     | Only One | MKE           | LIC;VIN         |            |            |
| 2     | Not      | LIC           | VMA;VYR         |            |            |
| 3     | And      | LIC           | LIY;LIT         |            |            |

**Example Cross-Field (Relationship) Validation Screen.**

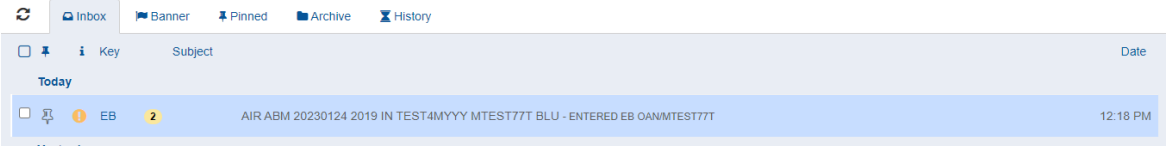
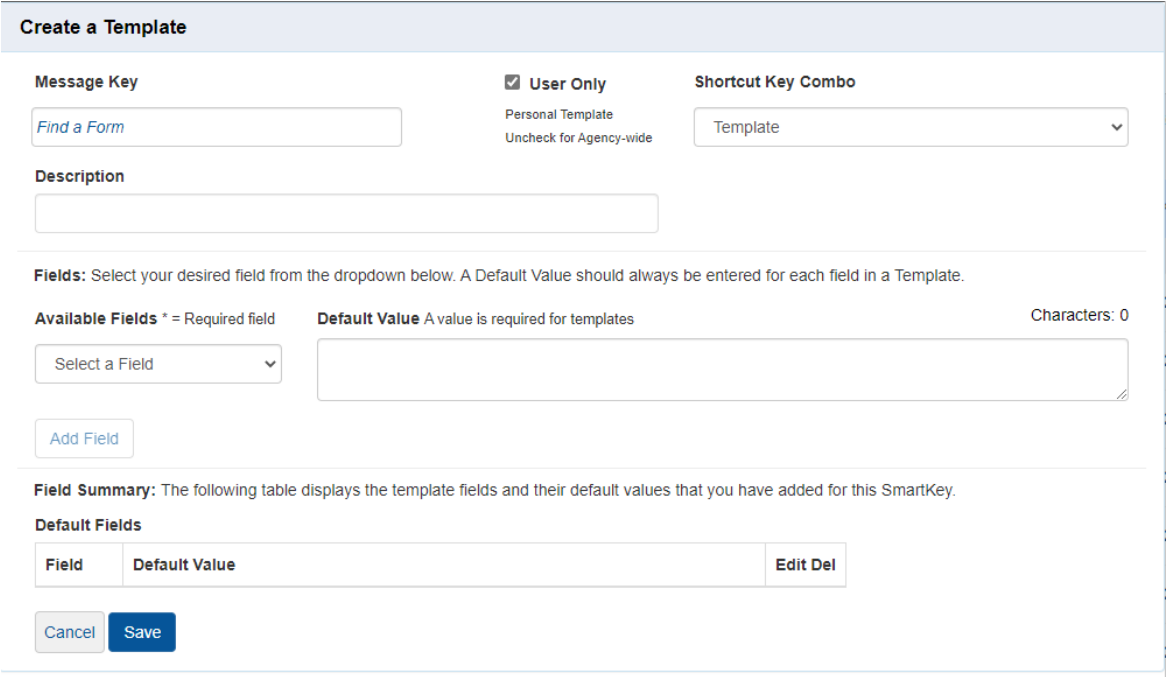


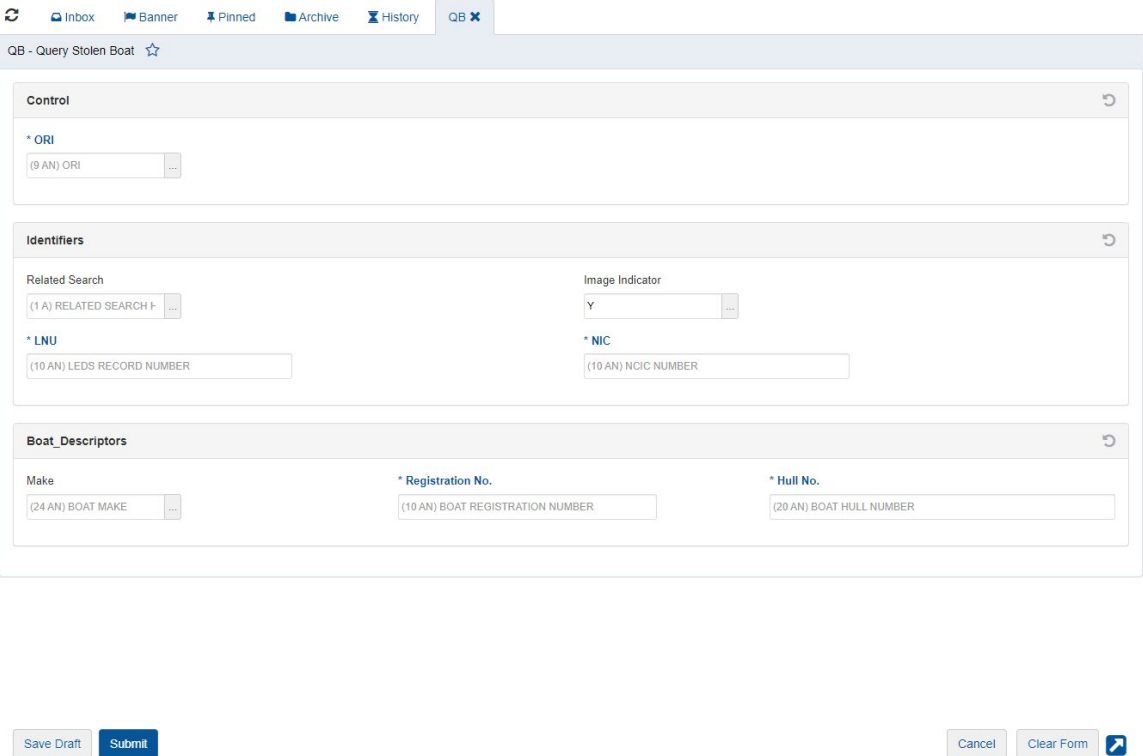
| ID     | Specification  | Current Capability/ Config | Future Release | Custom Development | Not Available |
|--------|--|----------------------------|----------------|--------------------|---------------|
| MBP-7  | <p>The solution shall provide editing capabilities by user for correction of errors in data.</p> <p>Bidder Response:<br/>The proposed eAgent 2.0 GUI allows users to correct errors in data entered in forms without having to re-enter the entire form data.</p>  | X                          |                |                    |               |
| MBP-8  | <p>The solution shall allow users to receive priority messages (to be defined by NSP administrators) first, regardless of what other information is queued.</p> <p>Bidder Response:<br/>LEMS/JX provides priority queuing. The priority is specified in the LEMS/JX Output Control table and based on message key, source device, and other specified conditions. Messages with higher priority are retrieved from the LEMS/JX queue before messages with lower priority. Messages with identical priorities are delivered in the order they are received.</p>   | X                          |                |                    |               |
| MBP-9  | <p>The solution should utilize compression techniques for data, message, and image packets to maximize system performance, including an explanation of the compression method used.</p> <p>Bidder Response:<br/>The Unisys proposed solution accommodates compressed data, including messages and images. The system expects imported images (submitted with transactions) to be compressed at the source as JPEG or other common image compression standards. The eAgent 2.0 user interface also uses the Web browser's decompression capability to render a compressed image for display. Our proposed solution network infrastructure components implement network compression and decompression in a way that is appropriate to the network.</p> | X                          |                |                    |               |
| MBP-10 | <p>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.</p>   | X                          |                |                    |               |

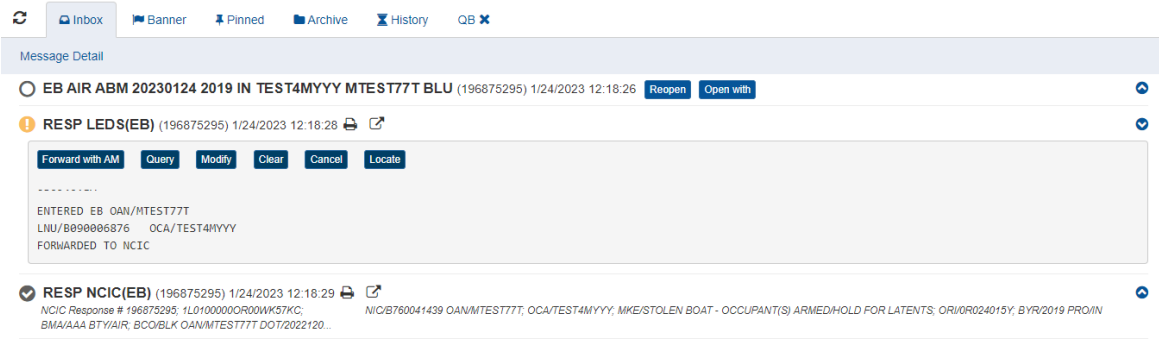
| ID     | Specification   | Current Capability/ Config | Future Release | Custom Development | Not Available |
|--------|---|----------------------------|----------------|--------------------|---------------|
|        | <p>Bidder Response:</p> <p>The proposed solution utilizes encryption techniques to maximize protection from unauthorized access or monitoring, For web interfaces and web services, this is accomplished using Transport Layer Security (TLS) 1.2 or later supported by server certificates. TLS encryption is implemented in a FIPS 140-2 compliant mode, as required by the FBI CJIS Security Policy, using the Advanced Encryption Standard (AES) cryptographic algorithm with 128 or 256 bit strength.</p> <p>LEMS/JX also provides configurable FIPS 140-2 complaint encryption for other types of interfaces using pre-shared keys. Encryption modes and encryption keys can be configured per line so that different lines can use different modes, keys, or both. The system interfacing with LEMS/JX must transmit encrypted data to LEMS/JX in the mutually agreed mode and encryption key so LEMS/JX can decode the message. Likewise, data transmitted from LEMS/JX to an external interface will be encoded in the mutually agreed mode and key.</p> |                            |                |                    |               |
| MBP-11 | <p>The solution shall accommodate network elements that may already be encrypted at the originating source, including hardware encryption.</p> <p>Bidder Response:</p> <p>LEMS/JX accommodates network elements that may already be encrypted at the originating source, as long as another network device decrypts the encrypted data before it is passed to LEMS/JX, or the encrypted data was encrypted in a standard supported by LEMS/JX, such as certain FIPS 140-2 methods or Transport Layer Security (TLS).</p>  | X                          |                |                    |               |
| MBP-12 | <p>The solution shall, when appropriate, automatically route National Crime Information Center (NCIC) response transactions to CLEIN for update (e.g., \$ messages).</p> <p>Bidder Response:</p> <p>The proposed solution automatically routes NCIC response transactions and unsolicited \$ messages to the appropriate CLIEN destination. The LEMS/JX Console is used to configure the routing, for example, to the request, by ORI, to a broadcast group, or a specific user or system device.</p>   | X                          |                |                    |               |
| MBP-13 | <p>The solution should utilize nonsequential message and response return techniques to improve performance and timeliness of information.</p>   | X                          |                |                    |               |

| ID     | Specification   | Current Capability/ Config | Future Release | Custom Development | Not Available |
|--------|---|----------------------------|----------------|--------------------|---------------|
|        | <p>Bidder Response:</p> <p>LEMS/JX utilizes nonsequential message and response return techniques to improve performance and timeliness of information. LEMS/JX processes a message or response as it is received, independently of receiving and processing other messages and responses. This means that multiple messages can be processed at once (rather than sequentially) to improve performance and timeliness of information.</p>   |                            |                |                    |               |
| MBP-14 | <p>The solution shall enable integration with the Peak Performance user certification program.</p>  | X                          |                |                    |               |
|        | <p>Bidder Response:</p> <p>LEMS/JX integrates with the Peak Performance nexTEST user certification program using secure web services to sync user information. When a user is added to LEMS/JX, the user is automatically populated in nexTEST. The sync identifies the user's certification level so they can be assigned the proper training. When the user successfully completes the required training and testing for their certification, nexTEST sends an updated certification expiration date back to update the profile in LEMS/JX. This eliminates the need for administrators to manually update these dates.</p> <p>In addition to on-premises nexTEST deployments, LEMS/JX integrates with Peal Performance's Software as a Service (SaaS) offering with nexTEST running in the Azure Government Cloud.</p> |                            |                |                    |               |
| MBP-15 | <p>The solution shall provide timely updates to NCIC and CLEIN code tables. In no event will these updates take more than 30 days to fully apply after mutual agreement on the scope of the update.</p>   | X                          |                |                    |               |
|        | <p>Bidder Response:</p> <p>The LEMS/JX Console provides a capability for a system administrator to update NCIC, CLEIN, and other code tables as needed, without any programming, using the LEMS Console Lookup Table screens. The updates take effect immediately without any service interruption. This is accomplished well within the 30-day window required.</p>  |                            |                |                    |               |
| MBP-16 | <p>The solution should print any of the reports or other outputs at administratively configurable locations/printers (e.g., as an applet or function).</p>  | X                          |                |                    |               |
|        | <p>Bidder Response:</p> <p>The LEMS/JX reporting capability supports printing reports and other outputs to any local or network connected printer, configurable by administrators, using standard Windows printing capabilities. In addition, a Windows Service can be installed that allows printing to printers at local agencies using secure communications.</p>  |                            |                |                    |               |

| ID  | Specification   | Current Capability/ Config | Future Release | Custom Development | Not Available |
|---|---|----------------------------|----------------|--------------------|---------------|
| MBP-17  | <p><del>The solution shall enable key components of the MSS to be modified by system administrators to meet changing federal and state standards, without the need to contract with a vendor to make changes.</del></p> <p>The solution should enable key components of the MSS to be modified by system administrators to meet changing federal and state standards, without the need to contract with a vendor to make changes.</p> | X                          |                |                    |               |
| <p>Bidder Response:</p> <p>The solution is highly configurable, and generally enables every component of LEMS/JX to be modified by qualified and trained system administrators to meet changing federal and state standards without the need to contract with a vendor to make changes. The Unisys Team may be required to make such changes in the uncommon case when the changing federal or state standard goes beyond the extensive configurability and requires a product software update. These product software updates are included by the Unisys Team as a part of annual support.</p> <p>Modifications to the eAgent 2.0 user interface are generally made by Diverse Computing, due to the complexity of an advanced, modern user interface. However, eAgent 2.0 modifications to meet changing federal and state standards are also included in the annual support.</p> |   |                            |                |                    |               |
| MBP-18  | <p>The solution should support the linking of all responses to the queries that triggered them.</p>   | X                          |                |                    |               |
| <p>Bidder Response:</p> <p>The proposed solution supports the linking of all parts of a composite request response to the queries that triggered them. This is accomplished through several configurable capabilities in LEMS/JX that use the assigned message sequence number (MSN) as a transaction identifier to match each response resulting from spawned queries to the single query submitted by the user. The eAgent 2.0 user interface utilizes this this transaction identifier to visually associate all responses resulting from the single query submitted by the user and the spawned queries.</p> <p>In addition, LEMS/JX provides a “concatenator” orchestration capability to collect individual spawned responses and assemble them into a single response returned to the user.</p>  |   |                            |                |                    |               |
| MBP-19  | <p>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.).</p>  | X                          |                |                    |               |

| ID     | Specification  | Current Capability/ Config | Future Release | Custom Development | Not Available |
|--------|--|----------------------------|----------------|--------------------|---------------|
|        | <p>Bidder Response:</p> <p>Users are able to view and re-open their recent forms from the Inbox. They can re-open the form prefilled and have the option to clear either the whole form or certain sections. Users can re-open the form by selecting the message key link directly from the Inbox.</p>  <p style="text-align: center;"><b>Re-opening an eAgent 2.0 Form</b></p> <p>Users can also save templates of forms to address situations like habitual runaways/missing persons. Users have the ability to create and manage their own templates. TAC users can also create and manage templates at the agency level.</p>  <p style="text-align: center;"><b>Creating an eAgent 2.0 Template</b></p> |                            |                |                    |               |
| 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                          |                |                    |               |

| ID     | Specification  | Current Capability/ Config | Future Release | Custom Development | Not Available |
|--------|--|----------------------------|----------------|--------------------|---------------|
|        | <p>Bidder Response:</p> <p>Users are able to open forms in a variety of ways in eAgent 2.0. The Forms Menu and Find a Form options allow users to open and complete any form they have authorization for in the system. eAgent 2.0 allows the user to fill these out within the tab or in a new window.</p>  <p style="text-align: center;"><b>eAgent 2.0 Form</b></p> <p>Users can submit the form with the button at the bottom or with a key-combination. The forms are fully keyboard accessible to allow for heads down data entry. Once submitted the system will generate the message to the switch in the correct format.</p> |                            |                |                    |               |
| 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                          |                |                    |               |

| ID | Specification  | Current Capability/ Config | Future Release | Custom Development | Not Available |
|----|--|----------------------------|----------------|--------------------|---------------|
|    | <p>Bidder Response:</p> <p>eAgent 2.0 provides users with several ways to copy information into a new form. eAgent Response Buttons provide quick functionality from within the response to open forms with data prefilled. They can re-open the form exactly as submitted we the Reopen option. The users can use Open with to open the information with a different form.</p>  <p>The screenshot shows an email interface with a message titled "EB AIR ABM 20230124 2019 IN TEST4MYYY MTEST77T BLU". Below the message, there are buttons for "Forward with AM", "Query", "Modify", "Clear", "Cancel", and "Locate". The email content includes "ENTERED EB OAN/MTEST77T LNU/B090006876 OCA/TEST4MYYY FORWARDED TO NCIC".</p> <p style="text-align: center;"><b>eAgent 2.0 Copy into a New Form</b></p> <p>The responses also have buttons configured for items such as additional queries, modifies, clears, and cancels. eAgent Response Buttons can be configured to meet the needs of Nebraska.</p> |                            |                |                    |               |

**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.

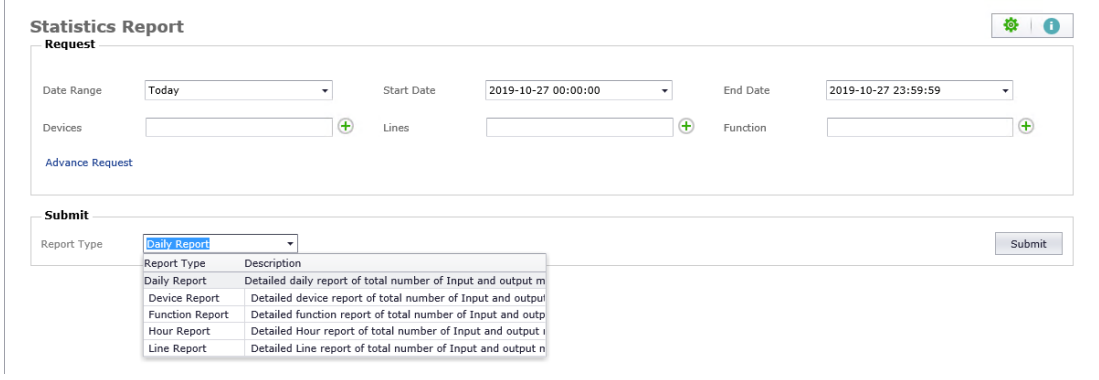
| ID              | Specification | Current Capability/ Config | Future Release | Custom Development | Not Available |
|-----------------|---------------|----------------------------|----------------|--------------------|---------------|
| <b>Analysis</b> |               |                            |                |                    |               |

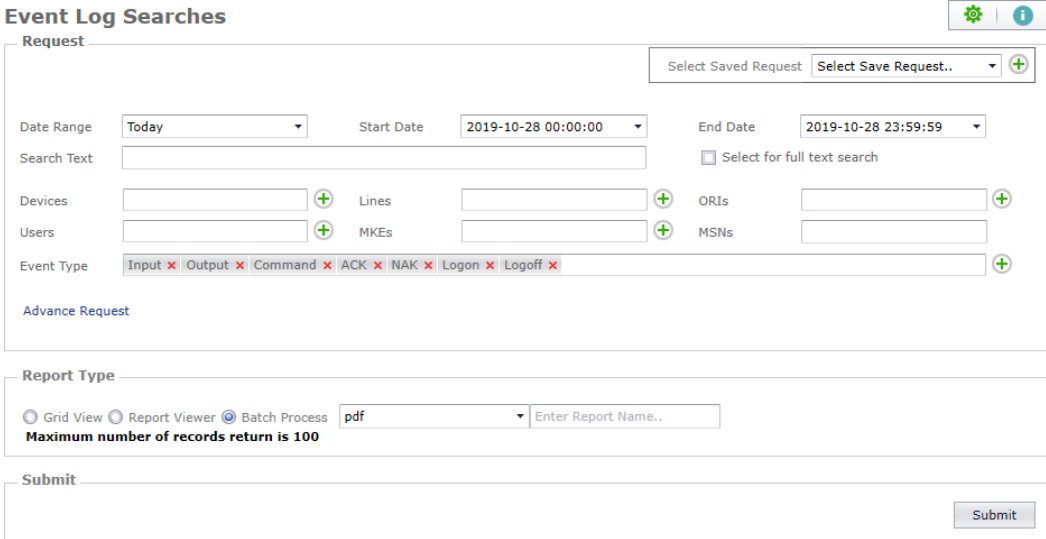
| ID  | Specification   | Current Capability/<br>Config | Future Release          | Custom Development | Not Available           |         |            |               |                    |           |                         |         |     |     |     |        |               |   |        |         |          |      |      |        |        |        |            |    |                         |                     |  |  |  |  |  |  |  |  |  |  |  |   |        |         |          |      |      |        |        |        |            |    |                         |                     |  |  |  |  |  |  |  |  |  |  |  |   |        |         |          |      |      |        |        |        |            |    |                         |                     |  |  |  |  |  |  |  |  |  |  |  |            |        |         |        |     |           |     |            |           |      |            |      |  |  |  |  |               |                         |                 |                         |                  |                         |  |  |               |         |             |        |     |        |        |    |                    |          |                  |          |     |        |  |  |      |                        |  |  |  |  |  |  |   |        |         |          |      |      |        |        |        |            |    |                         |                     |  |  |  |  |  |  |  |  |  |  |  |
|---|---|-------------------------------|-------------------------|--------------------|-------------------------|---------|------------|---------------|--------------------|-----------|-------------------------|---------|-----|-----|-----|--------|---------------|---|--------|---------|----------|------|------|--------|--------|--------|------------|----|-------------------------|---------------------|--|--|--|--|--|--|--|--|--|--|--|---|--------|---------|----------|------|------|--------|--------|--------|------------|----|-------------------------|---------------------|--|--|--|--|--|--|--|--|--|--|--|---|--------|---------|----------|------|------|--------|--------|--------|------------|----|-------------------------|---------------------|--|--|--|--|--|--|--|--|--|--|--|------------|--------|---------|--------|-----|-----------|-----|------------|-----------|------|------------|------|--|--|--|--|---------------|-------------------------|-----------------|-------------------------|------------------|-------------------------|--|--|---------------|---------|-------------|--------|-----|--------|--------|----|--------------------|----------|------------------|----------|-----|--------|--|--|------|------------------------|--|--|--|--|--|--|---|--------|---------|----------|------|------|--------|--------|--------|------------|----|-------------------------|---------------------|--|--|--|--|--|--|--|--|--|--|--|
| MAN-1   | <p><del>The solution shall log every inbound and outbound transaction and messaging action. Images should be cited without including the image file in the log, unless specified by the user. Logging should be configurable by MSS administrators.</del></p> <p>The solution shall log every inbound and outbound transaction and messaging action. Images should be cited without including the image file in the log, unless specifically requested by the user. Logging should be configurable by MSS administrators.</p> | X                             |                         |                    |                         |         |            |               |                    |           |                         |         |     |     |     |        |               |   |        |         |          |      |      |        |        |        |            |    |                         |                     |  |  |  |  |  |  |  |  |  |  |  |   |        |         |          |      |      |        |        |        |            |    |                         |                     |  |  |  |  |  |  |  |  |  |  |  |   |        |         |          |      |      |        |        |        |            |    |                         |                     |  |  |  |  |  |  |  |  |  |  |  |            |        |         |        |     |           |     |            |           |      |            |      |  |  |  |  |               |                         |                 |                         |                  |                         |  |  |               |         |             |        |     |        |        |    |                    |          |                  |          |     |        |  |  |      |                        |  |  |  |  |  |  |   |        |         |          |      |      |        |        |        |            |    |                         |                     |  |  |  |  |  |  |  |  |  |  |  |
| <p><b>Bidder Response:</b></p> <p>The proposed solution tracks every transaction and messaging action. LEMS/JX logs all inbound and outbound messages to the LEMS/JX Event Log Database along with metadata, including whether the input or output was successful or contained an error. Logging is configurable, by line and by message key, to log statistics (message metadata), the message itself, and/or images.</p>  |   |                               |                         |                    |                         |         |            |               |                    |           |                         |         |     |     |     |        |               |   |        |         |          |      |      |        |        |        |            |    |                         |                     |  |  |  |  |  |  |  |  |  |  |  |   |        |         |          |      |      |        |        |        |            |    |                         |                     |  |  |  |  |  |  |  |  |  |  |  |   |        |         |          |      |      |        |        |        |            |    |                         |                     |  |  |  |  |  |  |  |  |  |  |  |            |        |         |        |     |           |     |            |           |      |            |      |  |  |  |  |               |                         |                 |                         |                  |                         |  |  |               |         |             |        |     |        |        |    |                    |          |                  |          |     |        |  |  |      |                        |  |  |  |  |  |  |   |        |         |          |      |      |        |        |        |            |    |                         |                     |  |  |  |  |  |  |  |  |  |  |  |
| MAN-2   | <p>The solution shall provide all reports in a format that is viewable on screen.</p>   | X                             |                         |                    |                         |         |            |               |                    |           |                         |         |     |     |     |        |               |   |        |         |          |      |      |        |        |        |            |    |                         |                     |  |  |  |  |  |  |  |  |  |  |  |   |        |         |          |      |      |        |        |        |            |    |                         |                     |  |  |  |  |  |  |  |  |  |  |  |   |        |         |          |      |      |        |        |        |            |    |                         |                     |  |  |  |  |  |  |  |  |  |  |  |            |        |         |        |     |           |     |            |           |      |            |      |  |  |  |  |               |                         |                 |                         |                  |                         |  |  |               |         |             |        |     |        |        |    |                    |          |                  |          |     |        |  |  |      |                        |  |  |  |  |  |  |   |        |         |          |      |      |        |        |        |            |    |                         |                     |  |  |  |  |  |  |  |  |  |  |  |
| <p><b>Bidder Response:</b></p> <p>The proposed solution provides all reports in a format that is viewable ON SCREEN. The LEMS/JX Console returns all reports, including the event log search results (shown in below example), in a report for viewing online in various formats, including a text format. The Print menu item can be used to print the viewed results as a report.</p> <div data-bbox="337 1270 1421 1816" style="border: 1px solid #ccc; padding: 5px;"> <p><b>LEMS Event Log Result</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>#</th> <th>Event Type</th> <th>Source Device</th> <th>Destination Device</th> <th>Input MKE</th> <th>Output MKE</th> <th>User ID</th> <th>ISN</th> <th>OSN</th> <th>MSN</th> <th>Length</th> <th>Log Date/Time</th> </tr> </thead> <tbody> <tr> <td>▶</td> <td>Purged</td> <td>DC-DEV1</td> <td>DEADLETR</td> <td>SEND</td> <td>SEND</td> <td>&lt;NONE&gt;</td> <td>000023</td> <td>000000</td> <td>0026000023</td> <td>20</td> <td>2015/02/04 14:58:47:717</td> </tr> <tr> <td colspan="12">SEND NWS-DEV1, TEST</td> </tr> <tr> <td>▶</td> <td>Purged</td> <td>DC-DEV1</td> <td>DEADLETR</td> <td>SEND</td> <td>SEND</td> <td>&lt;NONE&gt;</td> <td>000024</td> <td>000000</td> <td>0026000024</td> <td>20</td> <td>2015/02/04 14:58:47:733</td> </tr> <tr> <td colspan="12">SEND NWS-DEV1, TEST</td> </tr> <tr> <td>▼</td> <td>Purged</td> <td>DC-DEV1</td> <td>DEADLETR</td> <td>SEND</td> <td>SEND</td> <td>&lt;NONE&gt;</td> <td>000025</td> <td>000000</td> <td>0026000025</td> <td>20</td> <td>2015/02/04 14:58:47:747</td> </tr> <tr> <td colspan="12">SEND NWS-DEV1, TEST</td> </tr> </tbody> </table> <br/> <div style="border: 1px solid #ccc; padding: 5px;"> <table style="width: 100%;"> <tr> <td>Event Type</td><td>Purged</td> <td>User ID</td><td>&lt;NONE&gt;</td> <td>ORI</td><td>LM0000000</td> <td>MSN</td><td>0026000025</td> </tr> <tr> <td>Input MKE</td><td>SEND</td> <td>Output MKE</td><td>SEND</td> <td colspan="4"></td> </tr> <tr> <td>Log Date/Time</td><td>2015-02-04 14:58:47.747</td> <td>Input Date/Time</td><td>2013-06-06 10:17:04.580</td> <td>Output Date/Time</td><td colspan="2">2015-02-04 14:58:47.747</td> <td></td> </tr> <tr> <td>Source Device</td><td>DC-DEV1</td> <td>Source Line</td><td>DEVCLI</td> <td>ISN</td><td>000025</td> <td>Length</td><td>20</td> </tr> <tr> <td>Destination Device</td><td>DEADLETR</td> <td>Destination Line</td><td>DEADLETR</td> <td>OSN</td><td colspan="2">000000</td> <td></td> </tr> <tr> <td>Text</td><td colspan="7">SEND NWS-DEV1,<br/>TEST</td> </tr> </table> </div> <br/> <table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td>▶</td> <td>Purged</td> <td>DC-DEV1</td> <td>DEADLETR</td> <td>SEND</td> <td>SEND</td> <td>&lt;NONE&gt;</td> <td>000026</td> <td>000000</td> <td>0026000026</td> <td>20</td> <td>2015/02/04 14:58:47:747</td> </tr> <tr> <td colspan="12">SEND NWS-DEV1, TEST</td> </tr> </tbody> </table> <p style="text-align: center;"><b>LEMS Event Log Search Result.</b></p> </div> |   |                               |                         |                    |                         | #       | Event Type | Source Device | Destination Device | Input MKE | Output MKE              | User ID | ISN | OSN | MSN | Length | Log Date/Time | ▶ | Purged | DC-DEV1 | DEADLETR | SEND | SEND | <NONE> | 000023 | 000000 | 0026000023 | 20 | 2015/02/04 14:58:47:717 | SEND NWS-DEV1, TEST |  |  |  |  |  |  |  |  |  |  |  | ▶ | Purged | DC-DEV1 | DEADLETR | SEND | SEND | <NONE> | 000024 | 000000 | 0026000024 | 20 | 2015/02/04 14:58:47:733 | SEND NWS-DEV1, TEST |  |  |  |  |  |  |  |  |  |  |  | ▼ | Purged | DC-DEV1 | DEADLETR | SEND | SEND | <NONE> | 000025 | 000000 | 0026000025 | 20 | 2015/02/04 14:58:47:747 | SEND NWS-DEV1, TEST |  |  |  |  |  |  |  |  |  |  |  | Event Type | Purged | User ID | <NONE> | ORI | LM0000000 | MSN | 0026000025 | Input MKE | SEND | Output MKE | SEND |  |  |  |  | Log Date/Time | 2015-02-04 14:58:47.747 | Input Date/Time | 2013-06-06 10:17:04.580 | Output Date/Time | 2015-02-04 14:58:47.747 |  |  | Source Device | DC-DEV1 | Source Line | DEVCLI | ISN | 000025 | Length | 20 | Destination Device | DEADLETR | Destination Line | DEADLETR | OSN | 000000 |  |  | Text | SEND NWS-DEV1,<br>TEST |  |  |  |  |  |  | ▶ | Purged | DC-DEV1 | DEADLETR | SEND | SEND | <NONE> | 000026 | 000000 | 0026000026 | 20 | 2015/02/04 14:58:47:747 | SEND NWS-DEV1, TEST |  |  |  |  |  |  |  |  |  |  |  |
| #   | Event Type  | Source Device                 | Destination Device      | Input MKE          | Output MKE              | User ID | ISN        | OSN           | MSN                | Length    | Log Date/Time           |         |     |     |     |        |               |   |        |         |          |      |      |        |        |        |            |    |                         |                     |  |  |  |  |  |  |  |  |  |  |  |   |        |         |          |      |      |        |        |        |            |    |                         |                     |  |  |  |  |  |  |  |  |  |  |  |   |        |         |          |      |      |        |        |        |            |    |                         |                     |  |  |  |  |  |  |  |  |  |  |  |            |        |         |        |     |           |     |            |           |      |            |      |  |  |  |  |               |                         |                 |                         |                  |                         |  |  |               |         |             |        |     |        |        |    |                    |          |                  |          |     |        |  |  |      |                        |  |  |  |  |  |  |   |        |         |          |      |      |        |        |        |            |    |                         |                     |  |  |  |  |  |  |  |  |  |  |  |
| ▶   | Purged  | DC-DEV1                       | DEADLETR                | SEND               | SEND                    | <NONE>  | 000023     | 000000        | 0026000023         | 20        | 2015/02/04 14:58:47:717 |         |     |     |     |        |               |   |        |         |          |      |      |        |        |        |            |    |                         |                     |  |  |  |  |  |  |  |  |  |  |  |   |        |         |          |      |      |        |        |        |            |    |                         |                     |  |  |  |  |  |  |  |  |  |  |  |   |        |         |          |      |      |        |        |        |            |    |                         |                     |  |  |  |  |  |  |  |  |  |  |  |            |        |         |        |     |           |     |            |           |      |            |      |  |  |  |  |               |                         |                 |                         |                  |                         |  |  |               |         |             |        |     |        |        |    |                    |          |                  |          |     |        |  |  |      |                        |  |  |  |  |  |  |   |        |         |          |      |      |        |        |        |            |    |                         |                     |  |  |  |  |  |  |  |  |  |  |  |
| SEND NWS-DEV1, TEST   |   |                               |                         |                    |                         |         |            |               |                    |           |                         |         |     |     |     |        |               |   |        |         |          |      |      |        |        |        |            |    |                         |                     |  |  |  |  |  |  |  |  |  |  |  |   |        |         |          |      |      |        |        |        |            |    |                         |                     |  |  |  |  |  |  |  |  |  |  |  |   |        |         |          |      |      |        |        |        |            |    |                         |                     |  |  |  |  |  |  |  |  |  |  |  |            |        |         |        |     |           |     |            |           |      |            |      |  |  |  |  |               |                         |                 |                         |                  |                         |  |  |               |         |             |        |     |        |        |    |                    |          |                  |          |     |        |  |  |      |                        |  |  |  |  |  |  |   |        |         |          |      |      |        |        |        |            |    |                         |                     |  |  |  |  |  |  |  |  |  |  |  |
| ▶   | Purged  | DC-DEV1                       | DEADLETR                | SEND               | SEND                    | <NONE>  | 000024     | 000000        | 0026000024         | 20        | 2015/02/04 14:58:47:733 |         |     |     |     |        |               |   |        |         |          |      |      |        |        |        |            |    |                         |                     |  |  |  |  |  |  |  |  |  |  |  |   |        |         |          |      |      |        |        |        |            |    |                         |                     |  |  |  |  |  |  |  |  |  |  |  |   |        |         |          |      |      |        |        |        |            |    |                         |                     |  |  |  |  |  |  |  |  |  |  |  |            |        |         |        |     |           |     |            |           |      |            |      |  |  |  |  |               |                         |                 |                         |                  |                         |  |  |               |         |             |        |     |        |        |    |                    |          |                  |          |     |        |  |  |      |                        |  |  |  |  |  |  |   |        |         |          |      |      |        |        |        |            |    |                         |                     |  |  |  |  |  |  |  |  |  |  |  |
| SEND NWS-DEV1, TEST   |   |                               |                         |                    |                         |         |            |               |                    |           |                         |         |     |     |     |        |               |   |        |         |          |      |      |        |        |        |            |    |                         |                     |  |  |  |  |  |  |  |  |  |  |  |   |        |         |          |      |      |        |        |        |            |    |                         |                     |  |  |  |  |  |  |  |  |  |  |  |   |        |         |          |      |      |        |        |        |            |    |                         |                     |  |  |  |  |  |  |  |  |  |  |  |            |        |         |        |     |           |     |            |           |      |            |      |  |  |  |  |               |                         |                 |                         |                  |                         |  |  |               |         |             |        |     |        |        |    |                    |          |                  |          |     |        |  |  |      |                        |  |  |  |  |  |  |   |        |         |          |      |      |        |        |        |            |    |                         |                     |  |  |  |  |  |  |  |  |  |  |  |
| ▼   | Purged  | DC-DEV1                       | DEADLETR                | SEND               | SEND                    | <NONE>  | 000025     | 000000        | 0026000025         | 20        | 2015/02/04 14:58:47:747 |         |     |     |     |        |               |   |        |         |          |      |      |        |        |        |            |    |                         |                     |  |  |  |  |  |  |  |  |  |  |  |   |        |         |          |      |      |        |        |        |            |    |                         |                     |  |  |  |  |  |  |  |  |  |  |  |   |        |         |          |      |      |        |        |        |            |    |                         |                     |  |  |  |  |  |  |  |  |  |  |  |            |        |         |        |     |           |     |            |           |      |            |      |  |  |  |  |               |                         |                 |                         |                  |                         |  |  |               |         |             |        |     |        |        |    |                    |          |                  |          |     |        |  |  |      |                        |  |  |  |  |  |  |   |        |         |          |      |      |        |        |        |            |    |                         |                     |  |  |  |  |  |  |  |  |  |  |  |
| SEND NWS-DEV1, TEST   |   |                               |                         |                    |                         |         |            |               |                    |           |                         |         |     |     |     |        |               |   |        |         |          |      |      |        |        |        |            |    |                         |                     |  |  |  |  |  |  |  |  |  |  |  |   |        |         |          |      |      |        |        |        |            |    |                         |                     |  |  |  |  |  |  |  |  |  |  |  |   |        |         |          |      |      |        |        |        |            |    |                         |                     |  |  |  |  |  |  |  |  |  |  |  |            |        |         |        |     |           |     |            |           |      |            |      |  |  |  |  |               |                         |                 |                         |                  |                         |  |  |               |         |             |        |     |        |        |    |                    |          |                  |          |     |        |  |  |      |                        |  |  |  |  |  |  |   |        |         |          |      |      |        |        |        |            |    |                         |                     |  |  |  |  |  |  |  |  |  |  |  |
| Event Type  | Purged  | User ID                       | <NONE>                  | ORI                | LM0000000               | MSN     | 0026000025 |               |                    |           |                         |         |     |     |     |        |               |   |        |         |          |      |      |        |        |        |            |    |                         |                     |  |  |  |  |  |  |  |  |  |  |  |   |        |         |          |      |      |        |        |        |            |    |                         |                     |  |  |  |  |  |  |  |  |  |  |  |   |        |         |          |      |      |        |        |        |            |    |                         |                     |  |  |  |  |  |  |  |  |  |  |  |            |        |         |        |     |           |     |            |           |      |            |      |  |  |  |  |               |                         |                 |                         |                  |                         |  |  |               |         |             |        |     |        |        |    |                    |          |                  |          |     |        |  |  |      |                        |  |  |  |  |  |  |   |        |         |          |      |      |        |        |        |            |    |                         |                     |  |  |  |  |  |  |  |  |  |  |  |
| Input MKE   | SEND  | Output MKE                    | SEND                    |                    |                         |         |            |               |                    |           |                         |         |     |     |     |        |               |   |        |         |          |      |      |        |        |        |            |    |                         |                     |  |  |  |  |  |  |  |  |  |  |  |   |        |         |          |      |      |        |        |        |            |    |                         |                     |  |  |  |  |  |  |  |  |  |  |  |   |        |         |          |      |      |        |        |        |            |    |                         |                     |  |  |  |  |  |  |  |  |  |  |  |            |        |         |        |     |           |     |            |           |      |            |      |  |  |  |  |               |                         |                 |                         |                  |                         |  |  |               |         |             |        |     |        |        |    |                    |          |                  |          |     |        |  |  |      |                        |  |  |  |  |  |  |   |        |         |          |      |      |        |        |        |            |    |                         |                     |  |  |  |  |  |  |  |  |  |  |  |
| Log Date/Time   | 2015-02-04 14:58:47.747   | Input Date/Time               | 2013-06-06 10:17:04.580 | Output Date/Time   | 2015-02-04 14:58:47.747 |         |            |               |                    |           |                         |         |     |     |     |        |               |   |        |         |          |      |      |        |        |        |            |    |                         |                     |  |  |  |  |  |  |  |  |  |  |  |   |        |         |          |      |      |        |        |        |            |    |                         |                     |  |  |  |  |  |  |  |  |  |  |  |   |        |         |          |      |      |        |        |        |            |    |                         |                     |  |  |  |  |  |  |  |  |  |  |  |            |        |         |        |     |           |     |            |           |      |            |      |  |  |  |  |               |                         |                 |                         |                  |                         |  |  |               |         |             |        |     |        |        |    |                    |          |                  |          |     |        |  |  |      |                        |  |  |  |  |  |  |   |        |         |          |      |      |        |        |        |            |    |                         |                     |  |  |  |  |  |  |  |  |  |  |  |
| Source Device   | DC-DEV1   | Source Line                   | DEVCLI                  | ISN                | 000025                  | Length  | 20         |               |                    |           |                         |         |     |     |     |        |               |   |        |         |          |      |      |        |        |        |            |    |                         |                     |  |  |  |  |  |  |  |  |  |  |  |   |        |         |          |      |      |        |        |        |            |    |                         |                     |  |  |  |  |  |  |  |  |  |  |  |   |        |         |          |      |      |        |        |        |            |    |                         |                     |  |  |  |  |  |  |  |  |  |  |  |            |        |         |        |     |           |     |            |           |      |            |      |  |  |  |  |               |                         |                 |                         |                  |                         |  |  |               |         |             |        |     |        |        |    |                    |          |                  |          |     |        |  |  |      |                        |  |  |  |  |  |  |   |        |         |          |      |      |        |        |        |            |    |                         |                     |  |  |  |  |  |  |  |  |  |  |  |
| Destination Device  | DEADLETR  | Destination Line              | DEADLETR                | OSN                | 000000                  |         |            |               |                    |           |                         |         |     |     |     |        |               |   |        |         |          |      |      |        |        |        |            |    |                         |                     |  |  |  |  |  |  |  |  |  |  |  |   |        |         |          |      |      |        |        |        |            |    |                         |                     |  |  |  |  |  |  |  |  |  |  |  |   |        |         |          |      |      |        |        |        |            |    |                         |                     |  |  |  |  |  |  |  |  |  |  |  |            |        |         |        |     |           |     |            |           |      |            |      |  |  |  |  |               |                         |                 |                         |                  |                         |  |  |               |         |             |        |     |        |        |    |                    |          |                  |          |     |        |  |  |      |                        |  |  |  |  |  |  |   |        |         |          |      |      |        |        |        |            |    |                         |                     |  |  |  |  |  |  |  |  |  |  |  |
| Text  | SEND NWS-DEV1,<br>TEST  |                               |                         |                    |                         |         |            |               |                    |           |                         |         |     |     |     |        |               |   |        |         |          |      |      |        |        |        |            |    |                         |                     |  |  |  |  |  |  |  |  |  |  |  |   |        |         |          |      |      |        |        |        |            |    |                         |                     |  |  |  |  |  |  |  |  |  |  |  |   |        |         |          |      |      |        |        |        |            |    |                         |                     |  |  |  |  |  |  |  |  |  |  |  |            |        |         |        |     |           |     |            |           |      |            |      |  |  |  |  |               |                         |                 |                         |                  |                         |  |  |               |         |             |        |     |        |        |    |                    |          |                  |          |     |        |  |  |      |                        |  |  |  |  |  |  |   |        |         |          |      |      |        |        |        |            |    |                         |                     |  |  |  |  |  |  |  |  |  |  |  |
| ▶   | Purged  | DC-DEV1                       | DEADLETR                | SEND               | SEND                    | <NONE>  | 000026     | 000000        | 0026000026         | 20        | 2015/02/04 14:58:47:747 |         |     |     |     |        |               |   |        |         |          |      |      |        |        |        |            |    |                         |                     |  |  |  |  |  |  |  |  |  |  |  |   |        |         |          |      |      |        |        |        |            |    |                         |                     |  |  |  |  |  |  |  |  |  |  |  |   |        |         |          |      |      |        |        |        |            |    |                         |                     |  |  |  |  |  |  |  |  |  |  |  |            |        |         |        |     |           |     |            |           |      |            |      |  |  |  |  |               |                         |                 |                         |                  |                         |  |  |               |         |             |        |     |        |        |    |                    |          |                  |          |     |        |  |  |      |                        |  |  |  |  |  |  |   |        |         |          |      |      |        |        |        |            |    |                         |                     |  |  |  |  |  |  |  |  |  |  |  |
| SEND NWS-DEV1, TEST   |   |                               |                         |                    |                         |         |            |               |                    |           |                         |         |     |     |     |        |               |   |        |         |          |      |      |        |        |        |            |    |                         |                     |  |  |  |  |  |  |  |  |  |  |  |   |        |         |          |      |      |        |        |        |            |    |                         |                     |  |  |  |  |  |  |  |  |  |  |  |   |        |         |          |      |      |        |        |        |            |    |                         |                     |  |  |  |  |  |  |  |  |  |  |  |            |        |         |        |     |           |     |            |           |      |            |      |  |  |  |  |               |                         |                 |                         |                  |                         |  |  |               |         |             |        |     |        |        |    |                    |          |                  |          |     |        |  |  |      |                        |  |  |  |  |  |  |   |        |         |          |      |      |        |        |        |            |    |                         |                     |  |  |  |  |  |  |  |  |  |  |  |



| ID    | Specification   | Current Capability/<br>Config | Future Release | Custom Development | Not Available |
|-------|---|-------------------------------|----------------|--------------------|---------------|
| 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                             |                |                    |               |
|       | <p>Bidder Response:</p> <p>The LEMS/JX Event Log Search and reporting capability return results in exportable formats including Excel (.xls), comma-separated variable (.csv), text (.txt), tab-delimited text, PDF, and XML.</p>   |                               |                |                    |               |
| 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                             |                |                    |               |
|       | <p>Bidder Response:</p> <p>The LEMS/JX Event Log Database stores and provides online access to detailed transaction log records for a configurable period configurable by NSP. Because the solution uses Azure cloud storage, transaction log storage capacity can be expanded as needed without procuring additional storage hardware. We have sized the solution to support the specified retention schedule.</p> |                               |                |                    |               |
| 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 such as: .xls, .csv, .txt, and eXtensible Markup Language (XML).   | X                             |                |                    |               |
|       | <p>Bidder Response:</p> <p>The LEMS/JX Event Log Search and reporting capability return results in exportable formats including Excel (.xls), comma-separated variable (.csv), text (.txt), tab-delimited text, PDF, and XML.</p>   |                               |                |                    |               |

| ID    | Specification  | Current Capability/<br>Config | Future Release | Custom Development | Not Available |
|-------|--|-------------------------------|----------------|--------------------|---------------|
| MAN-6 | <p>The solution should provide NSP staff with the ability to create/generate custom or ad hoc reports on any data element in the MSS log, without contractor intervention. The solution should provide the ability to modify report headers, exclude columns, sort by and/or filter on any key data field (including filtering on date range), and save any modified report format for subsequent use.</p> <p>Bidder Response:</p> <p>Using the capabilities of the LEMS/JX Console, SQL Server Reporting Services (SSRS), or both, NPS staff can modify report headers; exclude columns; sort by, filter, or do both on any key data field (including filtering on date range); and save any modified report format for subsequent use.</p> <p>By clicking the gear icon on the upper right of the report screen (as shown in the response to MAN-2), a user can change the report header and chose which columns are included and excluded. A user can sort by a column in ascending or descending order by clicking on the column header. A used can apply a filter to one or more columns by typing directly in the field below the header for a prefix query, or clicking the funnel icon adjacent to the header for other filter options and more complex filter combinations.</p> | X                             |                |                    |               |
| MAN-7 | The solution shall provide standardized daily, weekly, and monthly system management and quality assurance reports, modifiable by NSP.   | X                             |                |                    |               |

| ID    | Specification  | Current Capability/ Config | Future Release | Custom Development | Not Available |
|-------|--|----------------------------|----------------|--------------------|---------------|
|       | <p>Bidder Response:</p> <p>The LEMS/JX Statistics Report feature provides standardized hourly, daily, weekly and monthly system management reports, as well as quality assurance reports, using SQL Server Reporting Services. The example below shows the screen used to request the reports. It provides for input of date range or specific start and end date and time, filters for devices, lines, and functions, and report type.</p>  <p style="text-align: center;"><b>Statistics Report.</b></p>  |                            |                |                    |               |
| MAN-8 | <p>The solution should provide the ability to generate NCIC validation reports, on demand and modifiable by NSP.</p> <p>Bidder Response:</p> <p>The proposed solution provides the ability to generate validation reports on demand. The solution receives validation reports from FBI CJIS over the NCIC Electronic File Transfer Service (EFTS). These reports can be printed or transferred to other systems, such as NSP’s Peak Performance CJIS Validations application. LEMS/JX integrates with Peak Performance CJIS Validations to allow authorized users to submit hot file transactions directly to LEMS/JX over a secure web services connection for validation purposes. For example, they can submit a cancel transaction for a record that is no longer valid, or submit a modify transaction with the Name of Validator (VLN) field to indicate that the record has been validated.</p> | X                          |                |                    |               |
| MAN-9 | <p>The solution shall have the ability to query the log data based on specific search criteria.</p>  | X                          |                |                    |               |

| ID     | Specification  | Current Capability/ Config | Future Release | Custom Development | Not Available |
|--------|--|----------------------------|----------------|--------------------|---------------|
|        | <p>Bidder Response:</p> <p>To search and retrieve messages, administrators can use the LEMS/JX Web Console Event Log's search capability. This capability provides powerful search capabilities based on logical combinations of multiple search criteria. A search can be based on the:</p> <ul style="list-style-type: none"> <li>• Start date and time</li> <li>• End date and time</li> <li>• Source device</li> <li>• Destination device</li> <li>• Source line</li> <li>• Destination line</li> <li>• Input message key</li> <li>• Output message key</li> <li>• ORI</li> <li>• User</li> <li>• Input sequence number (ISN)</li> <li>• Output sequence number (OSN)</li> <li>• Message sequence number (MSN)</li> <li>• Event type (inputs, outputs, command, ACKs, errors, and interface status changes)</li> <li>• Text search string.</li> </ul> <p>The Event Log Search screen is shown below.</p>  <p style="text-align: center;"><b>Event Log Search Screen.</b></p> |                            |                |                    |               |
| MAN-10 | <p>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.</p>  | X                          |                |                    |               |

| ID     | Specification  | Current Capability/ Config | Future Release | Custom Development | Not Available |
|--------|--|----------------------------|----------------|--------------------|---------------|
|        | <p>Bidder Response:</p> <p>The solution provides standard or ad hoc reports defined by MSS auditors. The functionality for this is described in our responses to MAN-6 through MAN-9.</p>  |                            |                |                    |               |
| MAN-11 | <p>The solution should provide a set of standard system and data reports for message switch operations, regardless of format, minimally including the following:</p> <ol style="list-style-type: none"> <li>1. List of transaction types (warrants, missing, etc.) for various agencies run over a user-defined period</li> <li>2. List of all transactions for a certain originating agency identifier (ORI), organized by message key or record type</li> <li>3. Ability to schedule reports</li> </ol>  | X                          |                |                    |               |
|        | <p>Bidder Response:</p> <p>The LEMS/JX reporting capability provides powerful and flexible search and retrieval criteria for generating standard system and data reports for message switch operation. LEMS/JX provides the capability to run a report for:</p> <ul style="list-style-type: none"> <li>• A list of transaction types (by MKE) for one or more agencies (by ORI) run over a user-defined period (by start date/time and end date/time)</li> <li>• List of message keys and record types for a certain ORI</li> <li>• Many other combinations of search and retrieval criteria for transactions and statistics.</li> </ul> <p>Reports can be scripted and scheduled to run by the operating system scheduling capability, SSRS scheduling capability, or both.</p> |                            |                |                    |               |
| MAN-12 | <p>The solution should produce daily activity reports by operator.</p>   | X                          |                |                    |               |
|        | <p>Bidder Response:</p> <p>The LEMS/JX Event Log Reporting capability (described in our response to MAN-9) allows NPS to produce activity reports by User ID (operator) and date-time range (which could be set to a day).</p>   |                            |                |                    |               |
| MAN-13 | <p>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.</p>   | X                          |                |                    |               |

| ID     | Specification  | Current Capability/<br>Config | Future Release | Custom Development | Not Available |
|--------|--|-------------------------------|----------------|--------------------|---------------|
|        | <p>Bidder Response:</p> <p>The LEMS/JX Console provides the ability to grant various permissions to different users. Permissions can be set to grant or deny read access, write access, or both to certain Console features such as LEMS/JX Event Log audit trail searches. Audit logs come with robust reporting and search tools using the LEMS/JX Console reporting capabilities and SSRS as described in our responses to MAN-6 through MAN-9.</p> |                               |                |                    |               |
| MAN-14 | <p>The solution should be capable of supporting a reporting function that can provide data by reporting jurisdiction.</p>  | X                             |                |                    |               |
|        | <p>As explained in our response to MAN-9, the LEMS/JX Event Log Reporting capability allows DPS to query for data by one or more ORIs that form a reporting jurisdiction</p>   |                               |                |                    |               |

**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/<br>Config | Future Release | Custom Development | Not Available |
|----------------------------|--|-------------------------------|----------------|--------------------|---------------|
| <b>Action and Decision</b> |  |                               |                |                    |               |
| MAD-1                      | <p>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.</p> | X                             |                |                    |               |

| ID    | Specification   | Current Capability/<br>Config | Future Release | Custom Development | Not Available |
|-------|---|-------------------------------|----------------|--------------------|---------------|
|       | <p>Bidder Response:</p> <p>LEMS/JX provides a configurable timer (set at 10 minutes) and maximum loop count (set at 3) that resends a hit confirmation request (YQ) with the request number field (RNO) incremented if the corresponding hit confirmation response (YR) isn't received within the timer period (10 minutes). Nlets automatically routes the hit confirmation request, as described in the requirement, according to the RNO value.</p>  |                               |                |                    |               |
| MAD-2 | <p>The solution should provide a record validation process by which responsible parties are automatically notified in advance of the need to validate within a specific time frame, and when records are deleted, appropriate parties are notified of the deletions.</p>  | X                             |                |                    |               |
|       | <p>Bidder Response:</p> <p>The proposed solution interfaces to NSP's Peak Performance Solutions' CJIS Validation solution for this capability. CJIS Validations sends a notice to each agency about their validations and also sends weekly reminders. If the State enables the online validation process with NCIC, then NCIC will generate a \$F message warning for each record that has not been validated in a timely basis. Then it will also send a \$P message and purge the record if it is not validated in the allowed time.</p> |                               |                |                    |               |
| MAD-3 | <p>The solution should provide subscription and notification capabilities (e.g., receiving notification that the status of a previous record inquiry has changed).</p>  | X                             |                |                    |               |

| ID    | Specification   | Current Capability/<br>Config | Future Release | Custom Development | Not Available |
|-------|---|-------------------------------|----------------|--------------------|---------------|
|       | <p>Bidder Response:</p> <p>LEMS/JX provides a subscription and notification capability based on record identifiers. The approach to this capability is similar to the following:</p> <ol style="list-style-type: none"> <li>1. Authorized users have a configurable capability to use the LEMS/JX Console to manage a list of message keys that can result in notifications, and the identifier fields in those messages to be used to search for matching transactions.</li> <li>2. To add a subscription, a user authorized to enter subscriptions accesses the eAgent 2.0 GUI Subscription form, enters the identifier to subscribe to, and submits the form. LEMS/JX replies with the unique ID for that subscription.</li> <li>3. An administrator has a capability to add a subscription for another user by specifying the ID of the user to be notified.</li> <li>4. To get a list of subscriptions, a user accesses the Subscription form and requests a list of his or her subscriptions. LEMS/JX replies with a list of the user's subscriptions by subscription ID, the identifier that is subscribed to, the ID of the user to be notified, and the ID of the user who created the subscription.</li> <li>5. An administrator is able to list subscriptions of other users by specifying the ID of the user to be notified.</li> <li>6. To delete a subscription, a user accesses the Subscription form, enters the ID of the subscription to be deleted, and submits the form. LEMS/JX replies with a confirmation that the subscription was deleted.</li> <li>7. An administrator is able to delete subscriptions for other users.</li> <li>8. When LEMS/JX receives a message, and the message is configured to be routed to the Subscription Service (in addition to other destinations), the Subscription Service compares the message's identifier fields (as configured in step 1) with the list of subscribed identifiers.</li> <li>9. For each match, the LEMS/JX Subscription Service generates a notification message with information on the subscription hit, such as the message key, ORI, and matching identifier. The notification message is generated in XML format, then transformed, using a stylesheet, and sent to the ID of the user to be notified, as specified in the subscription.</li> </ol> |                               |                |                    |               |
| 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 solution includes a “watchdog” functionality, which we refer to as the “Notifications Service”. Any user authorized to use the service can enter a subscription to be notified if another user ran the same switch transaction using the same search parameter within an NSP-specified time frame. See the ESUB entry form below. For audit purposes, the user must enter an Originating Agency Case Number and select a Reason Code (e.g., Violent Crimes, Theft, Fraud). The user can:

- Select whether to notify the agency that ran the subsequent query that a user is subscribed to it
- Enter up to three email addresses for notification
- Add notes about the subscription
- Up to 15 transactions associated with the subscription by selecting a message field name and entering a value for each, such as name, driver license number, vehicle license plate number

The user that entered the subscription can modify it or delete it. An administrator can modify or delete any subscription.

NSP can specify which message keys and which fields the subscription can apply to.

| ID                     | Specification   | Current Capability/<br>Config | Future Release | Custom Development | Not Available |
|------------------------|---|-------------------------------|----------------|--------------------|---------------|
|                        | <p>ESUB - Notifications Subscription Enter transactions ☆</p> <div style="border: 1px solid #ccc; padding: 10px;"> <p><b>Enter Subscription</b> <span style="float: right;">↻</span></p> <p><b>* Orig. Case No.</b><br/>(20 ANS) ORIGINATING AGENCY CASE NUMBE</p> <p><b>* Reason</b><br/>(1 A) CPIC REAS ...</p> <p><b>* Notify Orig. Agy.</b><br/>(1 A) NOTIFY OF ...</p> <p><b>* E-mail Address</b>                      <b>* E-mail Address</b>                      E-mail Address<br/>(3, 80 R) E-MAIL ADDRESS                      (3, 80 R) E-MAIL ADDRESS                      (3, 80 R) E-MAIL ADDRESS</p> <p>Notes <span style="float: right;">Characters: 200</span><br/>(200 ANS) MISCELLANEOUS</p> <p><b>* Subscription MessageKey</b>                      <b>* Value</b>                      Characters: 200<br/>(2 A) MKE ...                      (200 ANS) MISCELLANEOUS</p> <p><b>* Subscription MessageKey</b>                      <b>* Value</b>                      Characters: 200<br/>(2 A) MKE ...                      (200 ANS) MISCELLANEOUS</p> <p><b>* Subscription MessageKey</b>                      <b>* Value</b>                      Characters: 200<br/>(2 A) MKE ...                      (200 ANS) MISCELLANEOUS</p> </div> |                               |                |                    |               |
| <b>ESUB Entry Form</b> |   |                               |                |                    |               |

**Workflow**

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

| ID                      | Specification | Current Capability/<br>Config | Future Release | Custom Development | Not Available |
|-------------------------|---------------|-------------------------------|----------------|--------------------|---------------|
| <b>General Workflow</b> |               |                               |                |                    |               |

| ID  | Specification   | Current Capability/ Config | Future Release | Custom Development | Not Available |
|---|---|----------------------------|----------------|--------------------|---------------|
| MWF-1   | <p>The solution shall ensure that administrative messages can be sent or routed to:</p> <ol style="list-style-type: none"> <li>1. Users and groups of users</li> <li>2. Agencies and groups of agencies</li> <li>3. Defined devices</li> <li>4. Computer interfaces</li> <li>5. Any of the above within a defined geographic area or defined group</li> </ol> | X                          |                |                    |               |
| <p>Bidder Response:</p> <p>LEMS/JX can route administrative messages to a user (by user ID), groups of users (by named user group), agency (by ORI), groups of agencies (by named ORI group), devices, and computer interfaces. This is configured in the Output Control table using the LEMS/JX Console. In the LEMS Output Control table, the destination device is selected. When an administrator selects the \$STATE routing token from the drop-down list for the destination, a user, user group, an ORI, an ORI group, and/or a broadcast group (a named device group) are used as the destination. A destination computer interface can also be specified directly. LEMS/JX also provides the several capabilities for routing within a defined geographic area, including radius routing and broadcast groups. With the radius routing feature, when a user sends a message, they specify a destination device and an offset value. A calculation is done on the x and y coordinates of the logged-in devices to determine if they are within the specified offset from the specified device. All devices within that specified offset receive the message. Broadcast groups can also be used to specify a group of devices based on geography, such as devices for agencies along the I-80 corridor.</p> |   |                            |                |                    |               |
| MWF-2   | <p>The solution shall allow for the maintenance of user-defined, reusable group destination codes or lists of users.</p>  | X                          |                |                    |               |
| <p>Bidder Response:</p> <p>The LEMS/JX Console provides a capability for NSP administrators to configure any number of named groups of destination devices (broadcast groups), ORIs (ORI groups), and users (user groups). Users can specify one or more group names as a message's destination.</p>  |   |                            |                |                    |               |
| MWF-3   | <p>The solution shall enable configurable routing based on message or transaction type and content. For example, a hit on a wanted person destined for a mobile device is automatically "copied" to a dispatch center device.</p>   | X                          |                |                    |               |

| ID    | Specification   | Current Capability/ Config | Future Release | Custom Development | Not Available |
|-------|---|----------------------------|----------------|--------------------|---------------|
|       | <p>Bidder Response:</p> <p>LEMS/JX can be configured to spawn additional transactions based on an original transaction's content, a response's content, or both types of content. Using the LEMS/JX Console, a message can be configured for routing to multiple devices through multiple entries in the LEMS Output Control table. Each input message key or input message key/input device group combination has at least one Output Control table entry. If there is to be only one destination in a single format for the input message, there is only one message output control table entry for that input message. If there are to be multiple destinations (message spawning), or if there are different output formats (depending on the transaction data from the input message), there are multiple Message Output Control table entries for that input message, one for each combination of output device and output format.</p>  |                            |                |                    |               |
| MWF-4 | <p>The solution should provide guaranteed message and transaction delivery.</p>   | X                          |                |                    |               |
| MWF-5 | <p>The solution shall provide for optional message and transaction escalation and alternative delivery. For example, Agency A experiences a power outage, so Agency B is designated to receive Agency A's messages (set by NSP).</p> <p>Bidder Response:</p> <p>LEMS/JX provides configurable automatic and manual alternate routing for optional message and transaction escalation and alternative delivery. Automatic alternate routing is used to reroute messages destined for one device to an alternate device should the original destination device be logged off, offline, or failed. Manual alternate routing is used to reroute messages destined for one device to an alternate device regardless of the original destination device's state. Both of these are configured in the LEMS/JX device table using the LEMS/JX Web Console. Manual and automatic alt routing can also be configured, enabled, and disabled by authorized local agency administrators via LEMS/JX commands entered using eAgent 2.0. If a device is configured so that it has an Auto Alt Route device specified, and the device is considered offline, messages destined for that device are queued automatically to the Auto Alt Route device instead.</p> <p>If manual alt routing for a device is turned on, all messages queued for that device are copied to the Alt Route device's queue. All subsequent messages destined to that device are copied to the Alt Route device until manual alternate routing is turned off.</p> | X                          |                |                    |               |

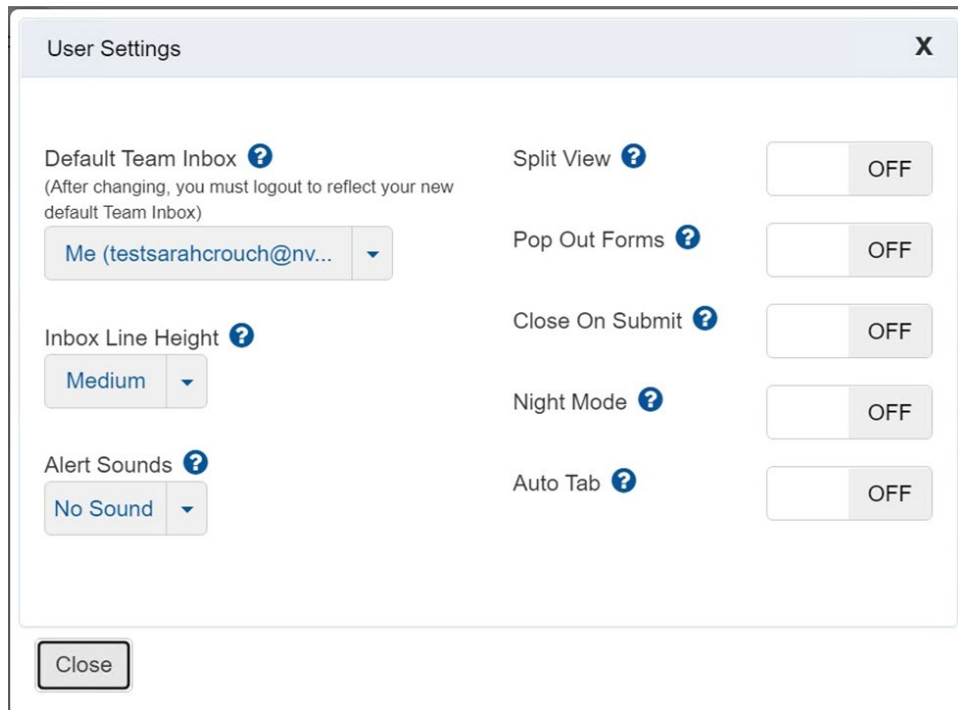
| ID    | Specification  | Current Capability/<br>Config | Future Release | Custom Development | Not Available |
|-------|--|-------------------------------|----------------|--------------------|---------------|
| MWF-6 | <p>The solution should provide queuing that allows messages and transactions to 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.</p> <p>Bidder Response:</p> <p>The proposed solution provides configurable queuing that allows messages and transactions to accumulate for subsequent delivery in the event of connectivity or system downtime. LEMS/JX can be configured to continue to queue messages while an interface is unavailable and deliver them when the interface is restored. The LEMS/JX Output Control table entry includes a checkbox that determines whether to do this for a particular message type. LEMS/JX can be configured to purge messages after a specific period if desired. This can be configured per line so that the requirements of one interface can be different from those of another.</p> | X                             |                |                    |               |
| MWF-7 | <p>The solution should allow group queues with the option to delete messages on first read or require that messages be deleted manually.</p> <p>Bidder Response:</p> <p>LEMS/JX provides several group queues that are not sent to a particular device but can be viewed by authorized administrators using the LEMS/JX Console. These group queues include the Deal Letter queue and the Office queue. The eAgent 2.0 graphical user interface provides a "Team Inbox" capability, which allows for a group to be defined within an agency that receives unsolicited messages such as hit confirmations. Messages will stay active within the Team Inbox until the first person selects the message and actions it.</p>   | X                             |                |                    |               |
| MWF-8 | <p>The solution shall allow messages to queue and present the messages based on message priorities.</p> <p>Bidder Response:</p> <p>LEMS/JX provides priority queuing. The priority is specified in the LEMS/JX Output Control table and is based on message key, source device, and other specified conditions. Messages with higher priority are retrieved from the queue before messages with lower priority. Messages with identical priorities are delivered in the order they are moved to the queue.</p>   | X                             |                |                    |               |
| MWF-9 | <p>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.</p>   | X                             |                |                    |               |

| ID     | Specification   | Current Capability/<br>Config | Future Release | Custom Development | Not Available |
|--------|---|-------------------------------|----------------|--------------------|---------------|
|        | <p>Bidder Response:</p> <p>LEMS/JX provides the capability to deliver all messages and responses from all sources to the appropriate end user. This is achieved by using the LEMS Web Console, configuring the LEMS/JX Output Control table to route messages using the \$RESPONSE routing token. This token looks at the message sequence number, which is returned in all responses. Part of the message sequence number is the actual device number of the original requesting device; this is used to determine the response's destination.</p> |                               |                |                    |               |
| MWF-10 | <p>The message switching application shall have the ability to accurately time- and date-stamp all transactions processed based on the operating system clock.</p>  | X                             |                |                    |               |
|        | <p>Bidder Response:</p> <p>All transactions are saved in the LEMS/JX Event Log with accurate time and date stamps based on the operating system clock. Since all Azure virtual machines use the Coordinated Universal Time (UTC) time zone, the time and date stamps are stored using a time zoned configurable offset from UTC.</p>  |                               |                |                    |               |
| MWF-11 | <p>The solution should provide a configurable visual and/or auditory mechanism for making users aware that messages or responses have been received.</p>  | X                             |                |                    |               |

**Bidder Response:**

The Alert Sounds setting allows users to choose an alert sound for each time they receive an unsolicited message. Alert sounds are automatically set to “No Sound,” but if a user chooses to change this, there are three sounds to choose from.

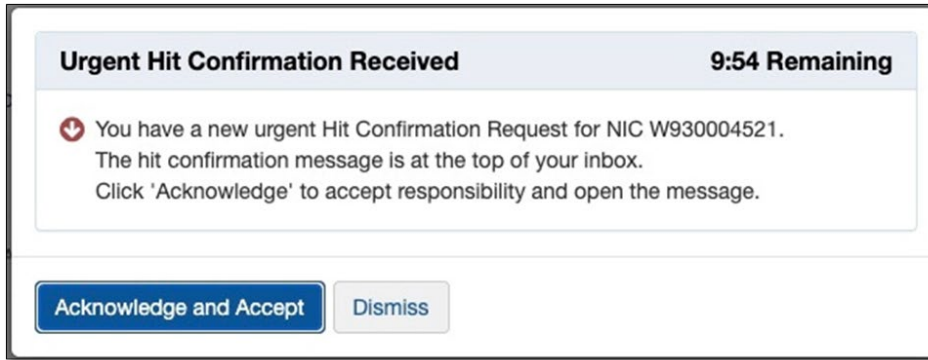
To set Alert Sounds, open User Settings and click on the Alert Sounds Dropdown to select a sound from the menu. A green notification will appear that states “User preference saved” when the setting has been successfully configured as seen in the figure below.



**eAgent 2.0 User Settings**

The eAgent 2.0 application alerts users to hit confirmation messages with both visual and audio notifications. The notification will display to all users in the group. A user must acknowledge the notification before taking any other actions in the application. Once someone in the group accepts responsibility for the hit confirmation, alerts to the group will stop. A notification will display to the group with the name of the user who accepts responsibility.

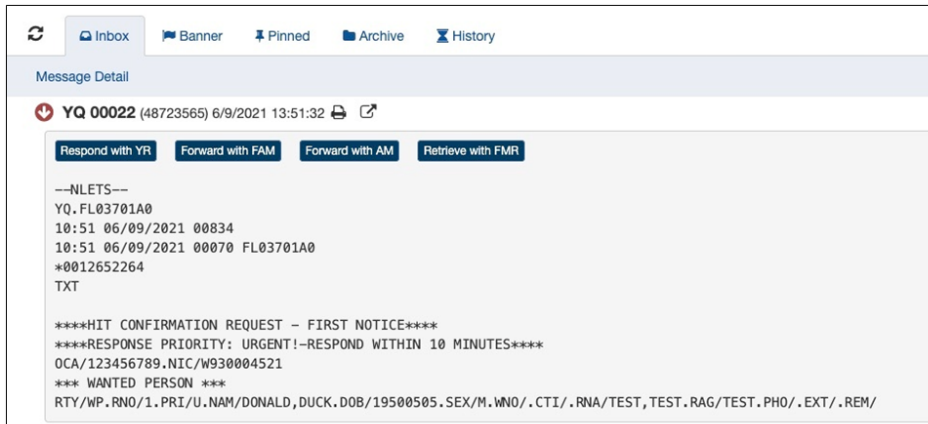
Agencies have the option to change their permissions settings to allow users to dismiss YQ notifications. This would permit users to dismiss YQ messages without having to claim responsibility for them.



### Incoming YQ Notification

When a user receives a hit confirmation, a countdown of the time the user has left to accept the YQ will automatically display at the top of the notification. To accept responsibility for it click **Acknowledge and Accept**. The contents of the YQ will open in a new notification.

To send a YR, select the **Respond with YR** button at the top of YQ message detail window. The YQ will appear at the top of the Inbox to be referred to at any point.



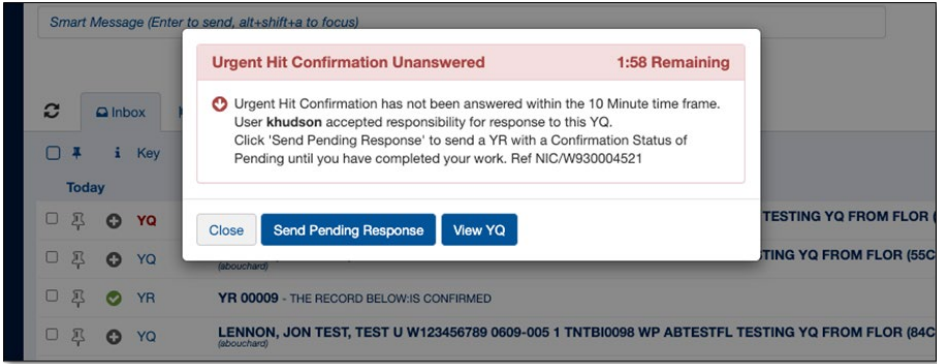
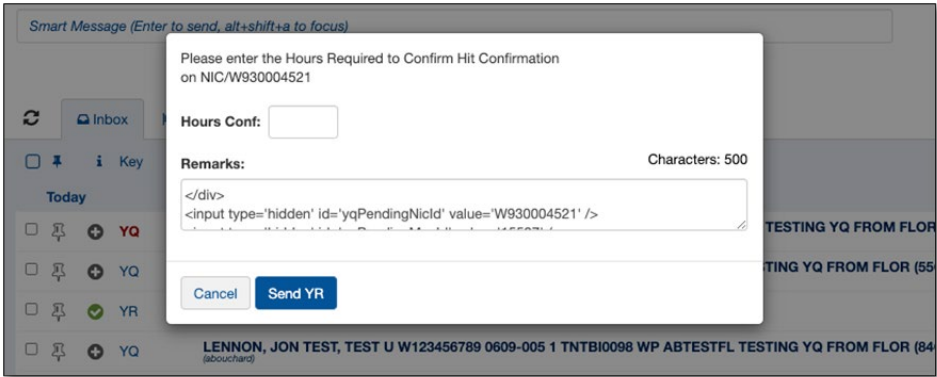
### Accepted YQ Notification Highlighting 'Respond with YR' Button

For urgent hit confirmations, users will have ten (10) minutes to respond, and for a routine hit confirmation users will have an hour. A countdown will display at the top of the YQ notification with the amount of time left to respond.

In the case where users accept a hit confirmation but choose to continue other work before responding with a YR, they will receive a reminder to respond. This reminder will pop up when approximately three (3) minutes remain for an urgent hit confirmation, and when seven (7) minutes remain for a routine hit confirmation. The countdown of the remaining time will display at the top of the notification. To respond with a pending response select **Send Pending Response**.

Agencies can change their permissions settings to send a hit confirmation reminder to all users in the agency. This will include the username of the person who accepted responsibility for the YQ.



| ID     | Specification  | Current Capability/ Config | Future Release | Custom Development | Not Available |
|--------|--|----------------------------|----------------|--------------------|---------------|
|        |  <p style="text-align: center;"><b>Hit Confirmation Reminder Notification</b></p> <p>When users choose to send a pending response, the notification will prompt them to enter the hours required to confirm hit confirmation. Enter the hours in the box next to “Hours Conf” and click <b>Send YR</b>. A confirmation notification will appear with a reminder to complete a YR response, and a YR response will appear in the Inbox as well.</p>  <p style="text-align: center;"><b>Pending YR Notification</b></p> |                            |                |                    |               |
| MWF-12 | The solution should provide for confidential transaction-processing capability; for example, allow an authorized NSP administrator to designate an inquiry as “confidential” such that subsequent viewing of messages relating to the inquiry/response can be restricted, including writing audit trail information to a confidential or restricted audit log.   | X                          |                |                    |               |

| ID     | Specification   | Current Capability/<br>Config | Future Release | Custom Development | Not Available |
|--------|---|-------------------------------|----------------|--------------------|---------------|
|        | <p>Bidder Response:</p> <p>The proposed solution provides for confidential transaction-processing capability.</p> <p>Authorized confidential transaction users can enter the CONFON and CONFOFF LEMS/JX commands to turn on and turn off confidential mode. When in confidential mode, all transactions and their responses are logged to the LEMS Event Log database with marked as confidential. When the LEMS Event Log database is searched, only the user who entered the transaction and administrators authorized to view confidential information will see the confidential transactions in the search results.</p> |                               |                |                    |               |
| MWF-13 | <p>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).</p>   | X                             |                |                    |               |
|        | <p>Bidder Response:</p> <p>Each user device (eAgent 2.0 or regional system) can be associated with an NSP-defined ORI Group, which specifies other ORIs from the same and/or other agencies that can be used by the control terminal agency device. ORI Groups are defined using the LEMS/JX Console.</p>   |                               |                |                    |               |
| MWF-14 | <p>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.</p>   | X                             |                |                    |               |
|        | <p>Bidder Response:</p> <p>If the mobile terminal is using eAgent 2.0, the solution can forward unsolicited messages that are sent to a mobile terminal to a non-mobile terminal, in case the mobile terminal is turned off. This is accomplished using the LEMS/JX alternate routing capability described on our response to requirement MWF-5.</p>  |                               |                |                    |               |
| MWF-15 | <p>The solution shall provide the ability to manage a “dead letter file” of messages that cannot be successfully delivered.</p>   | X                             |                |                    |               |
|        | <p>Bidder Response:</p> <p>LEMS/JX includes a dead letter queue of messages that cannot be successfully delivered. NSP administrators can review and manage messages on the dead letter queue using the LEMS/JX Console.</p>  |                               |                |                    |               |

## 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.

| <b>NCIC Hot Files</b>   |  |
|---|--|
| <b><i>People</i></b>  | <b><i>Items</i></b>  |
| <ol style="list-style-type: none"><li>1. Wanted Persons</li><li>2. Missing Persons</li><li>3. Unidentified Persons</li><li>4. Supervised Release</li><li>5. Identity Theft</li><li>6. Sex Offenders</li><li>7. Gang Affiliation</li><li>8. Known or Suspected Terrorist</li><li>9. Protection Orders</li><li>10. Foreign Fugitive</li><li>11. Immigration Violator</li><li>12. National Instant Criminal Background Check System (NICS) Denied Persons</li><li>13. Protective Interest</li><li>14. Violent Person</li><li>15. Extreme Risk Protection Order (scheduled to be added in 2022)</li></ol> | <ol style="list-style-type: none"><li>1. Vehicle Files</li><li>2. Boat Files</li><li>3. Parts Files</li><li>4. Gun Files</li><li>5. License Plate File</li><li>6. Securities Files</li><li>7. Stolen Article Files</li></ol> |

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

| <b>Nebraska Hot Files</b>   |
|---|
| <ol style="list-style-type: none"><li>1. Foreign Petitioner (for protection orders)</li><li>2. Towed Vehicle</li><li>3. Infractions Warrant</li></ol> |

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 |
|------------------|------------------|---|----------------------------|----------------|--------------------|---------------|
| <b>Hot Files</b> |                  |   |                            |                |                    |               |
| HF-1             | NCIC             | The hot file solution should be compliant with requirements identified in the <i>NCIC 2000 Operating Manual</i> .   | X                          |                |                    |               |
|                  |                  | Bidder Response:<br>By design, the proposed hot files solution (eAgent 2.0 screens and LMES/JX message configuration) is compliant with requirements identified in the NCIC 2000 Operating Manual.  |                            |                |                    |               |
| 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:<br>The proposed solution fully supports all NCIC 2000 transaction types, including entry, modify, query, cancel, locate, clear, supplemental entry, and supplemental cancel.   |                            |                |                    |               |
| HF-3             | NCIC             | The hot file solution shall support standard NCIC data exchanges (e.g., National Information Exchange Model [NIEM] XML).  | X                          |                |                    |               |
|                  |                  | Bidder Response:<br>The proposed solution supports standard NCIC NIEM XML data exchanges for transactions, including between LEMS/JX and NCIC, eAgent 2.0 and LEMS/JX, and optionally between regional system interfaces and LEMS/JX (using LEMS Web Services). |                            |                |                    |               |
| HF-4             | Both             | The hot file solution should provide validation of hot file records.  | X                          |                |                    |               |
|                  |                  | Bidder Response:<br>The proposed solution interfaces to NSP's Peak Performance Solutions' CJIS Validation solution for this capability. The interface supports validation of NCIC and local hot files.  |                            |                |                    |               |
| HF-5             | Nebraska         | The hot file solution should support Nebraska response formats.   | X                          |                |                    |               |
|                  |                  | Bidder Response:<br>LEMS/JX will be configured with XML style sheet transformations (XSLT) to transform the NCIC and local hot file NIEM XML formats to Nebraska response formats.  |                            |                |                    |               |
| HF-6             | Both<br>Nebraska | The hot file solution should provide robust database search capabilities.   | X                          |                |                    |               |

| ID   | NCIC or Nebraska | Specification  | Current Capability/ Config | Future Release | Custom Development | Not Available |
|------|------------------|--|----------------------------|----------------|--------------------|---------------|
|      |                  | <p>Bidder Response:</p> <p>The proposed solution provides robust database search capabilities using standard queries for Nebraska-only Hot Files. In addition, the proposed SQL Server Reporting Services (SSRS) standard hot files reports can be used for more complex hot files searches.</p> |                            |                |                    |               |
| HF-7 | Both Nebraska    | The hot file solution should include tools that support Nebraska reporting and state and federal audit support requirements.   | X                          |                |                    |               |
|      |                  | <p>Bidder Response:</p> <p>The proposed solution includes the LEMS/JX Event Log Reporting capability and SSRS to support Nebraska reporting and state and federal audit support requirements.</p>  |                            |                |                    |               |

**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 |
|-------------------------------|--|----------------------------|----------------|--------------------|---------------|
| <b>General Infrastructure</b> |  |                            |                |                    |               |
| 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                          |                |                    |               |
|                               | <p>Bidder Response:</p> <p>The solution supports the operational capacity of the current MSS environment, as defined in Section V.B of the RFP, including photos. This includes the specified MSS interfaces, MSS sizing (throughput, message log storage, terminals, agencies), and hot files sizing, taking into account a 7.5% annual increase in throughput and workload as provided in an answer to a question on MIN-11.</p> |                            |                |                    |               |
| MIN-2                         | The solution should utilize a system architecture that is open, nonproprietary, and portable.  | X                          |                |                    |               |

| ID    | Specification   | Current Capability/ Config | Future Release | Custom Development | Not Available |
|-------|---|----------------------------|----------------|--------------------|---------------|
|       | <p>Bidder Response:</p> <p>The Unisys Team’s proposed solution has an open architecture, meaning it provides for interoperability, portability, and open software standards.</p> <p>Interoperability is accomplished through the use of loosely coupled, standards-based service interfaces between solution components and external systems, and the inclusion of highly configurable message switch technologies in the solution.</p> <p>Communications use open software standards internally and where supported by external systems. The solution components communicate using World Wide Web Consortium (W3C) standards for SOAP web services or Representational State Transfer (REST) web services based on Hypertext Transfer Protocol (HTTP)/Transport Layer Security (TLS) and other W3C Internet standards. In addition, communications use National Information Exchange Model (NIEM) Extensible Markup Language (XML) standards, and use standard Nlets and FBI Criminal Justice Information Services (CJIS) NIEM formats where appropriate. This means the system can be configured to communicate natively without the additional development required by proprietary interface protocols and formats. Furthermore, any system conforming to these open standards can be incorporated into the solution with reduced effort.</p> <p>The solution also supports the existing proprietary Datamaxx Message Processing Protocol (DMPP-2020) and Omnixx Force/OpenFox Markup Language (OFML), as required by MIN-16, for backwards compatibility.</p> <p>The open standard, non-proprietary standards are used for communications between the LEMS/JX MSS and:</p> <ul style="list-style-type: none"> <li>• The eAgent 2.0 UI</li> <li>• Local Hot Files</li> <li>• NCIC, III, and NICS</li> <li>• Nlets</li> <li>• Optionally to regional system interfaces who wish to move from the existing proprietary DMPP-2020 and OFML to open standards web services interfaces and NIEM XML formats.</li> </ul> <p>The proposed system architecture supports portability to any infrastructure that runs the specified Windows and Linux operating systems and SQL Server database.</p> |                            |                |                    |               |
| MIN-3 | The solution should be adaptive and use extensible architecture for future expansion and scalability without the need for major architectural modifications.  | X                          |                |                    |               |

The Unisys proposed solution is adaptive and uses an extensible architecture for future expansion and scalability, without the need for major architectural modifications.

This capability for future expansion and scalability is greatly facilitated by our deployment of the solution to the secure Microsoft Azure Government Cloud.

Scaling is adaptability of the system to the changed amount of workload or traffic to the web application. One of the great features of Azure service is its ability to auto scale according to the demands of the application usage.

Basically, increasing or decreasing the resources for application is called scaling. Instance is created each time a web app is deployed. Creating the instance means assigning a server to that application. Increasing the instance means adding up the servers assigned to that application. The scaling is done by creating more instances which is called scaling out. Another way of achieving the scaling is provisioning the larger role instances, also called scaling up.

Configuring scaling is easier in Azure as compared to traditional hosting. The primary server does not need to be taken down. It also eliminates the physical constraints of adding resources. Scaling features depend on the app service plan you opt for in Azure.

### ***Application Design***

- Partition the workload – Unisys proposed solution ensures design parts of the process to be discrete and decomposable. Minimize the size of each part, while following the usual rules for separation of concerns and the single responsibility principle.
- Design for scaling - Unisys proposed solution ensures Scaling that allows applications to react to variable load by increasing and decreasing the number of instances of roles, queues, and other services they use. The applications are designed with this in mind.
- Scale as a unit - Unisys proposed solution ensures planning for additional resources to accommodate growth. For each resource, Unisys understands the upper scaling limits, and use sharding or decomposition to go beyond these limits. We determine the scale units for the system in terms of well-defined sets of resources.
- Avoid client affinity - Unisys proposed solution ensures, where possible, that the application does not require affinity. Requests can thus be routed to any instance, and the number of instances is irrelevant. This also avoids the overhead of storing, retrieving, and maintaining state information for each user.
- Platform autoscaling - Unisys proposed solution utilizes and supports an autoscaling capability, such as Azure Autoscale, prefer it to custom or third-party mechanisms unless the built-in mechanism can't fulfill your requirements.
- Offload intensive CPU/IO tasks as background tasks - Unisys proposed solution identifies, if a request to a service is expected to take a long time to run or absorb considerable resources, it offloads the processing for this request to a separate task. We use worker roles or background jobs (depending on the hosting platform) to execute these tasks. This strategy enables the service to continue receiving further requests and remain responsive.
- Distribute the workload for background tasks - Wherever there are many background tasks, or the tasks require considerable time or resources, Unisys proposed solution spreads the work across multiple compute units
- Shared-Nothing Architecture - Unisys proposed solution uses independent, self-sufficient nodes that have no single point of contention (such as shared services or storage). In theory, such a system can scale almost indefinitely.

### ***Data Management***

| ID    | Specification  | Current Capability/ Config | Future Release | Custom Development | Not Available |
|-------|--|----------------------------|----------------|--------------------|---------------|
|       | <ul style="list-style-type: none"> <li>▪ Data Partitioning – Unisys proposed solution divides the data across multiple databases and database servers, or design the application to use data storage services that can provide this partitioning transparently.</li> <li>▪ Design for eventual consistency – Unisys proposed solution is designed for eventual consistency that improves scalability by reducing or removing the time needed to synchronize related data partitioned across multiple stores. We understand the cost is that data is not always consistent when it is read, and some write operations may cause conflicts.</li> <li>▪ Reduced chatty interactions between components and services – Unisys proposed solution avoids designing interactions in which an application is required to make multiple calls to a service (each of which returns a small amount of data), rather than a single call that can return all of the data.</li> <li>▪ Usage queues to level the load for high velocity data writes. – Unisys proposed solution surges in demand for a service can overwhelm that service and cause escalating failures.</li> <li>▪ Minimize the load on the data store – The data store is commonly a processing bottleneck, a costly resource, and often not easy to scale out. Unisys proposed solution, where possible, has removed logic (such as processing XML documents or JSON objects) from the data store, and perform processing within the application.</li> <li>▪ Minimize the volume of data retrieved – Unisys proposed solution retrieves only the data you require by specifying columns and using criteria to select rows.</li> <li>▪ Caching – Unisys proposed solution uses caching wherever possible to reduce the load on resources and services that generate or deliver data.</li> <li>▪ Handle data growth and retention –The amount of data stored by an application grows over time. This growth increases storage costs as well as latency when accessing the data, affecting application throughput and performance. Unisys proposed solution handles the aspects of data growth and retention using Azure backup solution with recommended policy and frequencies.</li> <li>▪ Optimize Data Transfer Objects (DTOs) – Unisys proposed solution uses an efficient binary format. DTOs are passed between the layers of an application many times.</li> <li>▪ Cache control – Unisys proposed solution has designed and configured the application to use output caching or fragment caching where possible, to minimize processing load.</li> <li>▪ Enable client side caching – Unisys proposed solution considers Web applications with enabled cache settings on the content that can be cached.</li> <li>▪ Use Azure blob storage and the Azure Content Delivery Network to reduce the load on the application. Consider storing static or relatively static public content, such as images, resources, scripts, and style sheets, in blob storage.</li> <li>▪ Optimize and tune SQL queries and indexes – Unisys proposed solution optimizes and tunes SQL queries and indexes. Some T-SQL statements or constructs may have an adverse effect on performance that can be reduced by optimizing the code in a stored procedure.</li> </ul> <p>De-normalizing data – Unisys proposed solution includes data normalization helps to avoid duplication and inconsistency. However, maintaining multiple indexes, checking for referential integrity, performing multiple accesses to small chunks of data, and joining tables to reassemble the data imposes an overhead that can affect performance.</p> |                            |                |                    |               |
| MIN-4 | The solution should provide system diagnostics and regular, automated reporting, including, but not limited to, error correction and detection.  | X                          |                |                    |               |



| ID | Specification   | Current Capability/ Config | Future Release | Custom Development | Not Available |
|----|---|----------------------------|----------------|--------------------|---------------|
|    | <p>The proposed solution provides system diagnostics, including error correction and detection.</p> <p>Distributed applications and services running in the cloud are, by their nature, complex pieces of software that comprise many moving parts. In a production environment, it's important to be able to track the way in which users use your system, trace resource utilization, and generally monitor the health and performance of your system. The Unisys proposed solution use this information as a diagnostic aid to detect and correct issues, and also to help spot potential problems and prevent them from occurring. Monitoring is a crucial part of maintaining quality-of-service targets. Common scenarios for collecting monitoring data include:</p> <ul style="list-style-type: none"> <li>▪ Ensuring that the system remains healthy.</li> <li>▪ Tracking the availability of the system and its component elements.</li> <li>▪ Maintaining performance to ensure that the throughput of the system does not degrade unexpectedly as the volume of work increases.</li> <li>▪ Guaranteeing that the system meets any service-level agreements (SLAs) established with customers.</li> <li>▪ Protecting the privacy and security of the system, users, and their data.</li> <li>▪ Tracking the operations that are performed for auditing or regulatory purposes.</li> <li>▪ Monitoring the day-to-day usage of the system and spotting trends that might lead to problems if they're not addressed.</li> <li>▪ Tracking issues that occur, from initial report through to analysis of possible causes, rectification, consequent software updates, and deployment.</li> <li>▪ Tracing operations and debugging software releases.</li> </ul> <p>Diagnosis requires the ability to determine the cause of faults or unexpected behavior, including performing root cause analysis. The information that's required typically includes:</p> <ul style="list-style-type: none"> <li>▪ Detailed information from event logs and traces, either for the entire system or for a specified subsystem during a specified time window.</li> <li>▪ Complete stack traces resulting from exceptions and faults of any specified level that occur within the system or a specified subsystem during a specified period.</li> <li>▪ Crash dumps for any failed processes either anywhere in the system or for a specified subsystem during a specified time window.</li> <li>▪ Activity logs recording the operations that are performed either by all users or for selected users during a specified period.</li> </ul> <p>The Unisys technical team analyzes the data for troubleshooting purposes that often requires a deep technical understanding of the system architecture and the various components that compose the solution. As a result, a large degree of manual intervention is often required to interpret the data, establish the cause of problems, and recommend an appropriate strategy to correct them. It might be appropriate simply to store a copy of this information in its original format and make it available for cold analysis. Azure Government Cloud resources have built-in Error correction and detection, in some cases. Error correction is the process of detecting errors in transmitted messages and reconstructing the original error-free data. Error correction ensures that corrected and error-free messages are obtained at the receiver side.</p> |                            |                |                    |               |

| ID    | Specification  | Current Capability/ Config | Future Release | Custom Development | Not Available |
|-------|--|----------------------------|----------------|--------------------|---------------|
| MIN-5 | <p>The solution shall provide production, test, and training environments. The user's access level should allow him/her to select the system desired.</p> <p>Bidder Response:<br/>The Unisys proposed solution provides the capability of supporting production, test, and training, environments, in logically separated environments within the Azure Government Cloud region. Azure allows segregation and separation of environments using security and resource groups</p>  | X                          |                |                    |               |
| MIN-6 | <p>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.</p> <p>Bidder Response:<br/>Based on recent performance benchmark tests in Azure Cloud deployments, the latency of a message in LEMS/JX is 0.1 or 0.2 seconds with a throughput of hundreds of messages per second, significantly less than the 1-second requirement. The Test Plan includes a performance test to verify processing times requirements are met.</p> | X                          |                |                    |               |
| MIN-7 | <p><del>The hardware should provide the capability for remote maintenance and troubleshooting.</del></p> <p>Bidder Response:</p>   | X                          |                |                    |               |
| MIN-8 | <p>There should be no hardware or software/application restrictions limiting the number of users capable of using the MSS.</p> <p>Bidder Response:<br/>The solution does not impose any practical hardware or software/application restrictions limiting the number of users capable of using the MSS. While NSP currently has 5,207 user accounts, solutions deployments for other customers have upwards of 50,000 user accounts.</p>  | X                          |                |                    |               |
| MIN-9 | <p>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.</p>  | X                          |                |                    |               |

**Bidder Response:**

Unisys is proud to propose hosting the MSS solution in the Microsoft Azure Government Cloud. As of the date of this proposal, Unisys is the only state message vendor to successfully deploy a complete state message switch to the Azure Government Cloud, for the State of Nevada. We firmly believe Government Cloud hosting is the future of criminal justice information system, including message switches. In contrast to other message switch vendors, Unisys has extensive expertise and experience deploying solutions for government to the cloud.

The figure below shows a high-level view of our proposed Nebraska MSS Azure Government Cloud. The Azure Government Cloud offers a number of benefits, compared to on-premises deployments and vendor data center managed services.

- Highly secure, with the flexibility to easily reconfigure security as needed
- Supports shared responsibility with Unisys and Nebraska for complying with FBI Criminal Justice Information Services (CJIS) Security Policy
- Highly performant, with the flexibility to rightsize infrastructure resources and costs by growing or shrinking compute, storage, and network resources as needed for peak loads and future growth
- Inherent high availability
- Disaster Recovery through the use of a paired disaster recovery Azure Government Region
- No hardware procurement or hardware installation required
- Shifts management of in-scope infrastructure from the State to Unisys—this minimizes dependencies and burden on State resources
- Facilitates migrating other existing and future Nebraska CJIS workloads to the Azure Government Cloud
- Retains communications with other state and national systems at NSP headquarters for continued system access management control by the NSP, using a secure, reliable site-to-site Internet VPM between the Azure Government Cloud and the NSP headquarters.
- Applies proven Unisys Information Technology Managed Services (ITSM) for the cloud to provide proactive monitoring, problem resolution, and Service Level Agreement (SLA) reporting
- Potentially reduces risk and improves flexibility and agility compared to a small product vendor's data center
- Can federate with Azure Active Directory—this enables users to authenticate using on-premises credentials for access to all authorized resources in the Azure cloud using single sign-on with Multi-Factor Authentication (MFA).

| ID | Specification   | Current Capability/<br>Config | Future Release | Custom Development | Not Available |
|----|---|-------------------------------|----------------|--------------------|---------------|
|    | <p>• Foreign Petitioner (for protection orders)<br/>• Towed Vehicle<br/>• Infractions Warrant</p> <p><b>Unisys MSS Solution Azure Government Cloud Overview</b></p> |                               |                |                    |               |

| ID     | Specification  | Current Capability/<br>Config | Future Release | Custom Development | Not Available |
|--------|--|-------------------------------|----------------|--------------------|---------------|
| MIN-10 | <p><del>The solution shall allow the addition of third-party hardware and software components (e.g., certification application, storage area network [SAN], and network attached storage [NAS]) through open architecture.</del></p> <p>The solution shall allow the addition of third-party software components (e.g., certification application).</p>  | X                             |                |                    |               |
|        | <p>Bidder Response:</p> <p>LEMS/JX allows the addition of or integration and interfacing with 3<sup>rd</sup> part products in a wide variety of ways. These integrations have been standards based and proprietary (where driven by the interfaced product).</p> <p>LEMS/JX is designed to separate the software code handling protocols from the software code performing configurable message processing. Because of this design:</p> <p>Almost any interface protocol can be accommodated by writing or reusing an interface software process to support that protocol, independently of the message processing that handles the interface's message format.</p> <p>The message processing is configurable to accommodate almost any message format, independent of the interface protocols used to send and receive messages.</p> <p>The proposed LEMS/JX interfaces with all major CAD/RMS solution provider products, including those from Motorola/Spillman, Central Square, Tyler Technologies, Hexagon, Niche and others. Integration products from CommSys support many of these interfaces.</p> <p>The solution includes interfaces with products from Peak Performance, including nexTEST, CJIS Validations, and CJIS Audit.</p> |                               |                |                    |               |
| MIN-11 | <p>The solution should be designed to allow for the addition of capacity to accommodate increases in MSS throughput and workload over a five-year period.</p> <p><del>The bidder should anticipate a 7.5% annual increase in throughput and workload.</del></p>  | X                             |                |                    |               |
|        | <p>Bidder Response:</p> <p>Through the use of the readily expanded compute and storage resources provided by the Azure Government Cloud, the proposed solution can allow for the addition of capacity to accommodate increases in MSS throughput and workload over a five-year period, anticipating a 7.5% annual increase in throughput and workload.</p>   |                               |                |                    |               |
|        | <p>The system should be designed to provide fault-tolerant processing.</p>   | X                             |                |                    |               |

| ID     | Specification  | Current Capability/ Config | Future Release | Custom Development | Not Available |
|--------|--|----------------------------|----------------|--------------------|---------------|
| MIN-12 | <p>Bidder Response:</p> <p>The proposed solution is designed to provide fault-tolerant processing for the Production environment through the use of high-availability features, including: deployment of application servers and web servers to multiple Azure virtual machines using a combination of failover clustering and load balancing; Azure storage and Azure SQL database options providing high availability through redundancy; and high availability network services.</p>  |                            |                |                    |               |
| MIN-13 | <p>The storage medium used for backup/recovery data should be reusable. The disaster recovery process should utilize the reusable storage medium.</p>  | X                          |                |                    |               |
|        | <p>Bidder Response:</p> <p>Our proposed solution uses highly reliable and highly available Azure storage and Azure SQL Database backup capabilities. This includes near real-time backup to the Azure disaster recovery site. This accomplishes the same function as a “reusable storage medium”, but in an improved manner, as no reusable physical medium is required.</p>   |                            |                |                    |               |
| MIN-14 | <p>The warranty clock shall not start until final acceptance of the MSS solution.</p>  | X                          |                |                    |               |
|        | <p>Bidder Response:</p> <p>Understood and agreed.</p>  |                            |                |                    |               |
| MIN-15 | <p>The solution should be compatible with Internet Protocol (IP) networking standards.</p>   | X                          |                |                    |               |
|        | <p>Bidder Response:</p> <p>The Unisys proposed solution hosted on Azure Government cloud uses IP networking standards in the core network connectivity between computers and other Transmission Control Protocol/Internet Protocol (TCP/IP) compatible devices. Every infrastructure over Azure will be part of a virtual network (VNet) which is fundamental building block of a private network. A VNet enables many types of Azure resources, such as Azure Virtual Machines (VM), to securely communicate with each other, the Internet, and on-premises networks using TCP/IP protocols. Azure VNets support to host applications in Azure with IPv6 and IPv4 both within a virtual network and communication to and from the Internet and other Azure VNets and on-premise network over IP. All solution components use IP networking,</p> |                            |                |                    |               |
| MIN-16 | <p>The solution should be compatible with Datamaxx Message Processing Protocol (DMPP-2020) and Omnixx Force/OpenFox Markup Language (OFML).</p>  | X                          |                |                    |               |
|        | <p>Bidder Response:</p> <p>The proposed solution supports the obsolete and proprietary DMPP-2020 protocol and OFML formats. DMPP-2020 is still in use in most of our other deployments and we have existing deployments using formats similar to the proprietary OMFL.</p>   |                            |                |                    |               |

| ID     | Specification  | Current Capability/<br>Config | Future Release | Custom Development | Not Available |
|--------|--|-------------------------------|----------------|--------------------|---------------|
| MIN-17 | <p><del>The solution should provide Simple Network Management Protocol (SNMP) and the Web-based tool set for centralized control of the system using an enterprise management platform.</del></p> <p>The solution should provide a Web-based tool set for centralized control of the system using an enterprise management platform.</p> | X                             |                |                    |               |

**Bidder Response:**

The solution includes an advanced, modern web-based tool set for centralized control of the system: the Microsoft Azure Portal enterprise cloud management platform. Azure Portal provides comprehensive management of all Azure services. The screenshots below show a subset of the services available. Clicking on a link shows all the service instances (such as a VM) you have deployed of that service type. Clicking on a link for an instance of a service provides a comprehensive overview of that service instance, and includes links for categories appropriate to the service instance to provide additional details on each category.

**General (14)**























The screenshot displays the 'General (14)' section of the Azure Portal navigation menu. It features a grid of 14 service categories, each with an icon, a text label, and a star icon. The categories are arranged in two columns. The first column includes 'All resources', 'Management groups', 'Resource groups', 'Marketplace', 'Service Health', 'Quickstart Center', and 'Reservations'. The second column includes 'Recent', 'Subscriptions', 'Cost Management + Billing', 'Help + support', 'Tags', 'Shared dashboards', and 'Resource Explorer'. The 'All resources' and 'Management groups' items are highlighted with a light gray background.

|                   |  |                           |
|-------------------|--|---------------------------|
| All resources     |  | Recent                    |
| Management groups |  | Subscriptions             |
| Resource groups   |  | Cost Management + Billing |
| Marketplace       |  | Help + support            |
| Service Health    |  | Tags                      |
| Quickstart Center |  | Shared dashboards         |
| Reservations      |  | Resource Explorer         |

**Azure General Services**






































**Compute (20)**

-  Virtual machines 
-  Virtual machine scale sets
-  App Services 
-  Batch accounts
-  Cloud services (classic)
-  Availability sets
-  OS images (classic)
-  Proximity placement groups
-  Host groups
-  Maintenance Configurations
-  Virtual machines (classic)
-  Function App
-  Container instances
-  Service Fabric clusters
-  Kubernetes services
-  Disks (classic)
-  VM images (classic)
-  Hosts
-  Application groups
-  Workspaces















**Azure Compute Services**

## Networking (33)

-  Virtual networks 
-  Load balancers 
-  Network Watcher
-  Network interfaces
-  Public IP Prefixes
-  Application security groups
-  Private DNS zones
-  Private Link
-  Bastions
-  Traffic Manager profiles
-  NAT gateways
-  Firewall Manager
-  Firewalls
-  Local network gateways
-  Route Servers
-  Virtual networks (classic)
-  Load balancing - help me choose
-  Azure Synapse Analytics (private link hubs)
-  Front Door and CDN profiles
-  Network security groups
-  Public IP addresses
-  Route tables
-  DDoS protection plans
-  Web Application Firewall policies (WAF)
-  Virtual WANs
-  DNS zones
-  Application gateways
-  IP Groups
-  Firewall Policies
-  Connections
-  Virtual network gateways
-  Network security groups (classic)
-  Reserved IP addresses (classic)





















## Azure Networking Services

## Storage (14)

- |   |  |
|---|--|
|  Storage accounts <span style="float: right;">★</span> |  Storage accounts (classic) |
|  Recovery Services vaults                              |  StorSimple Device Managers |
|  StorSimple Data Managers                              |  Storage Sync Services      |
|  Azure Stack Edge / Data Box Gateway                   |  Azure Stack Edge           |
|  Azure Data Box Gateway                                |  Azure Data Box             |
|  Azure NetApp Files                                    |  Data Shares                |
|  Data Share Invitations                                |  HPC caches                 |




































### Azure Storage Services

## Databases (20)

- |  |   |
|--|---|
|  Azure Cosmos DB <span style="float: right;">★</span> |  Azure Cosmos DB for MongoDB             |
|  Azure SQL  |  SQL databases                         |
|  Azure Database for MySQL servers                   |  Azure Database for PostgreSQL servers |
|  Azure Database for MariaDB servers                 |  SQL servers                           |
|  Dedicated SQL pools (formerly SQL DW)              |  Azure Synapse Analytics               |
|  Azure Database Migration Services                  |  Azure Cache for Redis                 |
|  SQL Server stretch databases                       |  Data factories                        |
|  SQL elastic pools                                  |  Virtual clusters                      |
|  Managed databases                                  |  Elastic Job agents                    |
|  SQL managed instances                              |  SQL virtual machines                  |

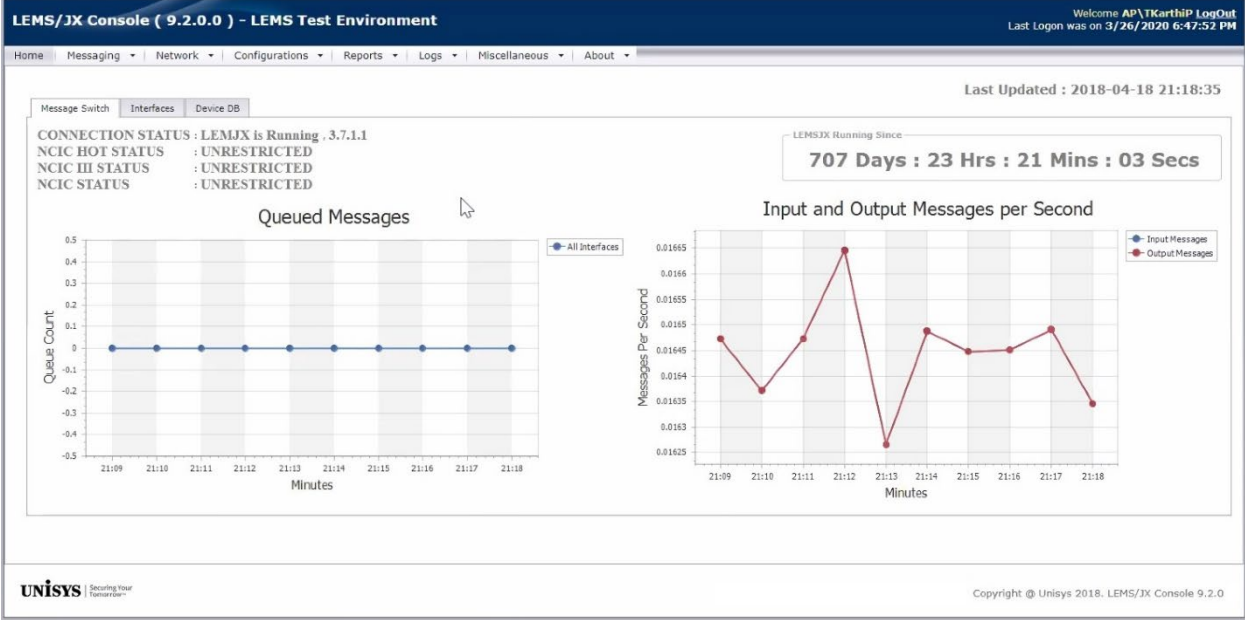
### Azure Database Services

## Networking (33)

-  Virtual networks 
-  Load balancers 
-  Network Watcher
-  Network interfaces
-  Public IP Prefixes
-  Application security groups
-  Private DNS zones
-  Private Link
-  Bastions
-  Traffic Manager profiles
-  NAT gateways
-  Firewall Manager
-  Firewalls
-  Local network gateways
-  Route Servers
-  Virtual networks (classic)
-  Load balancing - help me choose
-  Azure Synapse Analytics (private link hubs)
-  Front Door and CDN profiles
-  Network security groups
-  Public IP addresses
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-  Web Application Firewall policies (WAF)
-  Virtual WANs
-  DNS zones
-  Application gateways
-  IP Groups
-  Firewall Policies
-  Connections
-  Virtual network gateways
-  Network security groups (classic)
-  Reserved IP addresses (classic)

### Azure Networking

In addition, The LEMS/JX Console is part of the Web-based tool set for centralized control of the MSS application. The main screen, shown below, provides an administrative/dashboard monitor view of the application and its status. Other menu items provide additional monitoring and complete control of the MSS operations and configuration.

| ID     | Specification  | Current Capability/ Config | Future Release | Custom Development | Not Available |
|--------|--|----------------------------|----------------|--------------------|---------------|
|        |  <p>The screenshot shows the LEMS/JX Console Main Screen. At the top, it says 'LEMS/JX Console ( 9.2.0.0 ) - LEMS Test Environment'. The status section indicates: CONNECTION STATUS : LEMJX is Running , 3.7.1.1; NCIC HOT STATUS : UNRESTRICTED; NCIC III STATUS : UNRESTRICTED; NCIC STATUS : UNRESTRICTED. A timer shows 'LEMSJX Running Since 707 Days : 23 Hrs : 21 Mins : 03 Secs'. There are two line graphs: 'Queued Messages' showing a flat line at 0, and 'Input and Output Messages per Second' showing fluctuating values between 0.01625 and 0.01665. The footer includes the Unisys logo and 'Copyright © Unisys 2018. LEMS/JX Console 9.2.0'.</p> |                            |                |                    |               |
| MIN-18 | <p>The solution should be compatible with current wired networking standards (e.g., 10 Mb/100 Mb/1 Gb) for NSP.</p> <p>Bidder Response:<br/>The proposed solution is compatible with current wired networking standards for NPS in the sense that Unisys is not proposing any hardware that would use these wired networking standards. All solution components are deployed to the Azure Government Cloud.</p>  | X                          |                |                    |               |
| MIN-19 | <p>The solution should provide Transmission Control Protocol/Internet Protocol (TCP/IP) version IPv4 addressability for all components throughout the network.</p> <p>Bidder Response:<br/>Azure network provides peering with other cloud or on-premises network over public and private IP address using standard TCP/IP transport protocols. Peering over WAN is established using BGP routing protocol whereas the standard VNet setup uses dynamic internal routing protocol for inbound and outbound traffic exchange. All solution applications used TCP/IP.</p>  | X                          |                |                    |               |
|        | <p>The solution should recognize addressable agency ORIs.</p>  | X                          |                |                    |               |

| ID     | Specification   | Current Capability/ Config | Future Release | Custom Development | Not Available |
|--------|---|----------------------------|----------------|--------------------|---------------|
| MIN-20 | <p>Bidder Response:</p> <p>The proposed message switch, LEMS/JX, uses ORIs for the purposes of message routing. LEMS/JX maintains an ORI table and a device table, and associates zero or more ORIs to each Device ID. A message to be routed by ORI (such as an Administrative Message received from Nlets) is then routed by LEMS/JX to the Device ID(s) assigned to that ORI.</p>  |                            |                |                    |               |
| MIN-21 | <p>The solution should support the main MSS operations at the primary location and a disaster recovery hot site located at an alternate location.</p>   | X                          |                |                    |               |
|        | <p>Bidder Response:</p> <p>The solution supports the main MSS operations at the primary location in the Azure Government Arizona region and a disaster recovery hot site located at an alternate location in the Azure Government Texas region (using Azure Site Recovery).</p>   |                            |                |                    |               |
| MIN-22 | <p><del>The solution should include a disaster recovery hot site that provides load-balancing and real-time synchronization.</del></p> <p>The solution should include a disaster recovery hot site that provides real-time synchronization.</p>   | X                          |                |                    |               |
|        | <p>Bidder Response:</p> <p>The solution includes the Azure Government Texas region as disaster recovery hot site. Real-time synchronization is provided through Azure Site Recovery capabilities, which synchronizes files storage and Azure SQL Database storage from the primary site to the disaster recovery site.</p>  |                            |                |                    |               |
| MIN-23 | <p>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. <del>The disaster recovery hot site should be operational and active within 1 hour.</del></p>  | X                          |                |                    |               |
|        | <p>Bidder Response:</p> <p>The primary site and the disaster recovery hot site are each be capable of providing 100% operating capability for the production environment in the event that one site goes down and is inoperable. The disaster recovery hot site uses scripted Azure Site Recovery capabilities to become be operational and active within one hour if the start of cutover to the disaster recovery site. Once the failover to the disaster recovery site is initiated, the disaster recovery hot site is operational and active in less than one hour.</p> |                            |                |                    |               |
| MIN-24 | <p>The solution should provide automated failover in the event that one site goes down and is inoperable.</p>   | X                          |                |                    |               |

| ID             | Specification  | Current Capability/ Config | Future Release | Custom Development | Not Available |
|----------------|--|----------------------------|----------------|--------------------|---------------|
|                | <p>Bidder Response:</p> <p>Failover from the primary site to the backup site is automated using scripted Azure Site Recovery capabilities. Initiation of failover is manual to prevent inadvertent or unnecessary failover to the disaster recovery site in the event of temporary or transient issues at the primary site; however, once initiated, failover tasks are automated.</p>   |                            |                |                    |               |
| <b>Network</b> |  |                            |                |                    |               |
| NET-1          | <p>The solution shall provide network connectivity from NSP's headquarters to the cloud-based data center primary site and secondary COOP site. This includes connectivity between the primary and COOP as well. The contractor shall be solely responsible for the deployment, management, and payment of any and all onetime and recurring fees (including ingress/egress, and all other fees) associated with the provision of appropriately secured connectivity over the entirety of the base contract period and extension periods as applicable.</p>  | X                          |                |                    |               |
|                | <p>Bidder Response:</p> <p>Unisys analyzed the required throughput of the solution based on the user and message metrics specified in the RFP and determined that a site-to-site Internet VPN will handle the traffic securely, reliably and cost-effectively. As cloud networking has proliferated in the commercial and government world, Unisys has found that dedicated circuits no longer provide substantive benefits compared to Internet site-to-site VPNs except for the highest throughput needs.</p> <p>Unisys will deploy instances of the Azure VPN Gateway in the Azure primary site and the Azure COOP site. The Azure VPN gateway is compatible with a wide variety of on-premises termination equipment at NSP's headquarters. The VPNs are secured using Internet Protocol Security (IPsec) and Internet Key Exchange (IKE) with FIPS 140-2 certified cryptographic modules.</p> <p>Traffic between the Azure primary site and the Azure COOP site flows over the secure Microsoft Azure backbone.</p> |                            |                |                    |               |

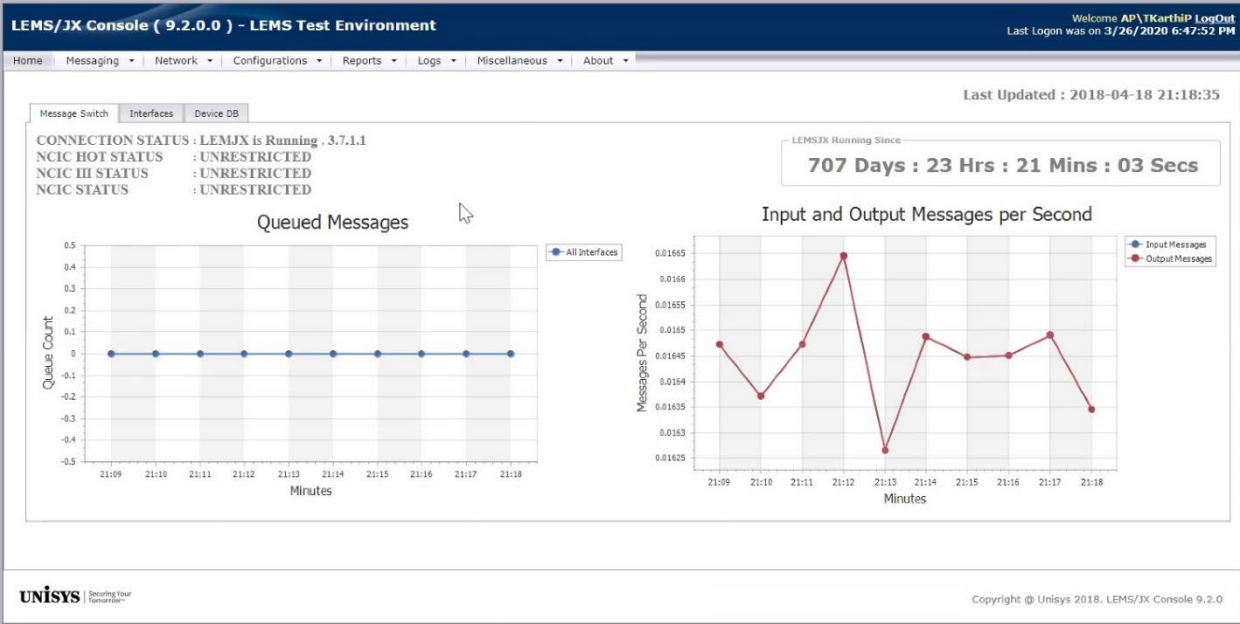
| ID   | Specification   | Current Capability/ Config | Future Release | Custom Development | Not Available |
|--|---|----------------------------|----------------|--------------------|---------------|
| NET-2  | The solution shall provide a backup VPN service to the cloud-based primary and secondary 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                          |                |                    |               |
| <p>Bidder Response:</p> <p>As stated in our response to NET-1, Unisys determined that a site-to-site Internet VPN will handle the traffic securely, reliably and cost-effectively as the primary backup method, relying on the resiliency of the Internet to provide similar availability to a dedicated circuit with VPN backup. If the NSP has two Internet connections at NSP headquarters, Unisys will configure a separate Azure VPN Gateway for each ISP connection.</p> |   |                            |                |                    |               |
| 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                          |                |                    |               |
| <p>Bidder Response:</p> <p>The calculated bandwidth requirements based on historical trend analysis and proposed MSS solution needs is 25 Mbps. Therefore, the NSP Internet connection should support 50 Mbps for this traffic.</p>  |   |                            |                |                    |               |

**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/<br>Config | Future Release | Custom Development | Not Available |
|---------------------|---|-------------------------------|----------------|--------------------|---------------|
| <b>Applications</b> |   |                               |                |                    |               |
| 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                             |                |                    |               |
|                     | <p>Bidder Response:</p> <p>The proposed solution provides simple, easy-to-manage, and inexpensive advanced user authentication strategies using Azure AD password and Azure Multi-Factor Authentication (MFA), enhanced for compliance with FBI CJIS Security Policy for passwords and advanced authentication. The solution provides MFA via phone authenticator apps such as Microsoft Authenticator and Google Authenticator, and desktop/laptop authenticator apps that can use hardware token devices, such as FortiToken and YubiKey. Obsolete and insecure techniques such as challenge questions and unencrypted email are not supported.</p> |                               |                |                    |               |
| MAP-2               | The solution shall provide multilevel security to restrict access and control functionality, in accordance with CJIS Security Policy.   | X                             |                |                    |               |
|                     | <p>Bidder Response</p> <p>Once a user is authenticated in Azure AD and access to the application (e.g., eAgent 2.0 UI, LEMS/JX Console) has been verified, the user's ID is passed to the application for controlling access within that application. Each target application manages user authorization independently and applies appropriate controls to restrict access to functionality and information contained within that application to implement multilevel security.</p>   |                               |                |                    |               |
| MAP-3               | The solution should provide an administrative or dashboard monitor view of the application and its status.  | X                             |                |                    |               |

| ID    | Specification  | Current Capability/ Config | Future Release | Custom Development | Not Available |
|-------|--|----------------------------|----------------|--------------------|---------------|
|       | <p>Bidder Response:</p> <p>The LEMS/JX Console main screen, shown below, provides an administrative/dashboard monitor view of the application and its status. It shows the up/down status of the LEMS/JX application, NCIC/III statuses, queued messages, and message throughput. Other screens provide additional details on individual interface statuses and queues.</p>  <p style="text-align: center;"><b>LEMS/JX Console Main Screen</b></p>  |                            |                |                    |               |
| MAP-4 | <p>The solution shall afford system administrators the ability to easily update security parameters while the system is online.</p> <p>Bidder Response:</p> <p>The solution allows administrators to easily update security parameters while the system is online. The LEMS/JX User Management Console allows user administrators to update a user's security parameters. The LEMS/JX Console allows NSP administrators to update other security parameters, such as those applied to ORIs and interfaces. Changes to these security parameters take effect immediately.</p> | X                          |                |                    |               |
| MAP-5 | <p>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.</p>   | X                          |                |                    |               |

| ID     | Specification  | Current Capability/<br>Config | Future Release | Custom Development | Not Available |
|--------|--|-------------------------------|----------------|--------------------|---------------|
|        | <p>Bidder Response:</p> <p>The solution processes data in real time. Any parameter change or data change made using the LEMS/JX Console and other configuration tools can be down while the system is online, and the change takes effect immediately.</p>   |                               |                |                    |               |
| MAP-6  | <p>The solution shall utilize Hypertext Transport Protocol Secure (HTTPS), especially for the user application component.</p>  | X                             |                |                    |               |
|        | <p>Bidder Response:</p> <p>The solution uses HTTPS for all communications between system components, including the user application. Specifically, the HTTPS communications use Transport Layer Security (TLS) v 1.2, with FIPS 140-2 certified cryptographic modules, as required by the FBI CJIS Security Policy.</p>  |                               |                |                    |               |
| MAP-7  | <p>The solution should provide the export or import of system code tables for NSP use with other systems.</p>  | X                             |                |                    |               |
|        | <p>Bidder Response:</p> <p>LEMS/JX Admin Web Services provides the capability for other authorized NSP systems to export and import system code tables using Soap XML web services.</p>  |                               |                |                    |               |
| MAP-8  | <p>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.</p>   | X                             |                |                    |               |
|        | <p>Bidder Response:</p> <p>The proposed solution utilizes Azure Cloud virtual machine 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. The system is initially “right-sized” to meet current peak performance needs and can be expanded upon demand without requiring the procurement of additional hardware.</p> |                               |                |                    |               |
| MAP-9  | <p>The MSS application software shall have a minimum of 12 months of warranty against defects.</p>   | X                             |                |                    |               |
|        | <p>Bidder Response:</p> <p>The proposed MSS application software has a 12 month warranty against defects, as described in the draft MSS Operations Plan included in this proposal.</p>   |                               |                |                    |               |
| MAP-10 | <p>The MSS application shall use an industry standard programming language.</p>  | X                             |                |                    |               |

| ID     | Specification  | Current Capability/<br>Config | Future Release | Custom Development | Not Available |
|--------|--|-------------------------------|----------------|--------------------|---------------|
|        | <p>Bidder Response:</p> <p>The MSS application uses industry standard programming languages, including C, .Net C++, C#, Java, and JavaScript. Note that the client workstation uses only standard modern web browsers and does not require installation of Java or C runtimes,</p>   |                               |                |                    |               |
| MAP-11 | The MSS application shall have interactive debugging and trace aids.   | X                             |                |                    |               |
|        | <p>Bidder Response:</p> <p>The MSS application provides debug logs that trace the message flow through all software components and interfaces. These can be used to debug the source of configuration errors, bad messages, and assist in finding software defects. In addition, the LEMS/JX Event Log captures input messages, output messages, message positive/negative acknowledgements. Serious errors are also captured in the operating system event log (e.g., Windows Event Log). Depending on the debug/file, they are viewable and searchable using common text viewers and other log view programs provided by the operating system.</p> |                               |                |                    |               |
| MAP-12 | The MSS application software shall provide fault-tolerant processing.  | X                             |                |                    |               |
|        | <p>Bidder Response:</p> <p>The Unisys solution uses a fault-tolerant, high-availability architecture through use of a well-described combination of virtualization, redundancy, clustering, automated monitoring of hardware and operating system failures, and other means. The primary means of fault-tolerance is distributed load balanced and clustered VMs running the applications, real-time data replication, and redundant networks.</p>   |                               |                |                    |               |
| MAP-13 | <del>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.</del>  |                               |                |                    |               |
|        | <p>Bidder Response:</p>  |                               |                |                    |               |
| MAP-14 | The solution shall provide NCIC file transfer capability.  | X                             |                |                    |               |
|        | <p>Bidder Response:</p> <p>The solution supports the NCIC Electronic File Transfer Service (EFTS) capability for validation files and other file transfers supported by NCIC. (Note that FBI CJIS no longer supports the unsecure File Transfer Protocol (FTP).</p>  |                               |                |                    |               |

| ID                    | Specification  | Current Capability/<br>Config | Future Release | Custom Development | Not Available |
|-----------------------|--|-------------------------------|----------------|--------------------|---------------|
| <b>User Interface</b> |  |                               |                |                    |               |
| 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                             |                |                    |               |
|                       | <p>Bidder Response:</p> <p>State and local user administrators use the LEMS/JX User Management Console to establish user accounts and passwords. The proposed solution complies with the Basic Password Standards specified in section 5.6.2.1.1.1 of the CJIS Security Policy v5.9.1. It accomplishes this using Azure AD default security policies augmented with additional Unisys-configured password policies needed to completely meet the Basic Password Standards and NICT Policy.</p>   |                               |                |                    |               |
| MAP-16                | The solution <b>shall</b> provide the identification and credentialing of individual users on the local agency interface to MSS for agencies accessing via an HTTPS session.   | X                             |                |                    |               |
|                       | <p>Bidder Response:</p> <p>The solution uses Azure Active Directory (AD) for identification and credentialing of individual users on the local agency interface to MSS for agencies accessing via an HTTPS session.</p>  |                               |                |                    |               |
| 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                             |                |                    |               |
|                       | <p>Bidder Response:</p> <p>System administrators use the LEMS/JX User Management Console to:</p> <ul style="list-style-type: none"> <li>• Provide authorization to a user to log in to the system, by clicking the enable/disable user icon</li> <li>• Set allowable functions for a user, by selecting a LEMS/JX Function Group for the user (Function Groups are NSP-configurable named groups of permitted functions – message keys and commands – that can be assigned to users, ORIs, and devices.)</li> <li>• Reset the password for a user by entering a temporary password or selecting a system-generated temporary password. Note that the user will need to change their password upon first logon after the password reset.</li> </ul> |                               |                |                    |               |
| MAP-18                | The solution shall allow users to reset their own passwords.   | X                             |                |                    |               |

| ID     | Specification  | Current Capability/ Config | Future Release | Custom Development | Not Available |
|--------|--|----------------------------|----------------|--------------------|---------------|
|        | <p>Bidder Response:</p> <p>The solution includes a self-service password reset (SSPR) tool, which allows users to reset their own password without administrator intervention. The user must register for SSPR with two forms of multi-factor authentication (MFA) for security reasons. Challenge questions and other methods now generally considered as weak MFA methods are not accepted for security reasons.</p>   |                            |                |                    |               |
| MAP-19 | <p>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.</p>   | X                          |                |                    |               |
|        | <p>Bidder Response:</p> <p>The solution allows 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. This is configured by Unisys using the Azure Portal.</p>   |                            |                |                    |               |
| MAP-20 | <p>The solution shall provide automatic user account deactivation, based on certification date or cancellation by an authorized manager-level command.</p>   | X                          |                |                    |               |
|        | <p>Bidder Response:</p> <p>The solution provides automatic user account deactivation, based on certification date or cancellation by an authorized manager-level command. This is accomplished as follows:</p> <ul style="list-style-type: none"> <li>• A user's MSS logon is rejected if the user's certification date has passed. The certification date must then be updated by a user administrator (using the LEMS/JX User Management Console) or by Peak Performance nexTEST (as a result of the user passing a certification test) before the user will be allowed to log on.</li> <li>• Using the LEMS/JX User Management Console, an authorized manager can disable the user's account by clicking the enable/disable user icon.</li> </ul> |                            |                |                    |               |


| ID     | Specification  | Current Capability/ Config | Future Release | Custom Development | Not Available |
|--------|--|----------------------------|----------------|--------------------|---------------|
| MAP-21 | <p>The solution shall utilize user-driven (e.g., user ID, ORI, or combination) security profiles to determine system access to the following:</p> <ol style="list-style-type: none"> <li>1. "Read" authority.</li> <li>2. "Add" authority.</li> <li>3. "Modify" authority.</li> <li>4. "Delete" access.</li> <li>5. Each function key for which authority is granted.</li> <li>6. Each command for which authority is granted.</li> <li>7. User classification or role.</li> <li>8. Production (live) or training mode.</li> </ol>   | X                          |                |                    |               |
|        | <p>Bidder Response:</p> <p>eAgent 2.0 restricts functionality based on the access controls passed to the system with the user's session. Based on the settings configured in the LEMS/JX User Management Console, the eAgent 2.0 system shows only the forms that the users should have access to. This allows administrators to control access via Menus.</p> <p>Each system has a capability to manage and enforce fine-grained permissions, including those listed in the requirement, based on the user's role and other claims passed at the time of authentication.</p> <p>As an example, the LEMS/JX MSS uses named function groups to control access. Permissions assigned to a particular function group, such as Read, Add, Modify, Delete, and other commands and functions, are configurable by LEMS/JX administrators. A function group is assigned to a user based on the user's role and other claims, and the individual permissions in the assigned function group are then available to the user. A "default deny" method is applied, where users are only permitted access to those functions explicitly included in their assigned function group.</p> <p>In the Unisys proposed solution, Live mode and Training mode are two separate environments. The user's web browser connects to a different web server for Training mode, and the user is assigned a separate set of permissions for Training mode.</p> |                            |                |                    |               |
| MAP-22 | <p>The solution shall require users to log on to the system before receiving access to any function. The solution shall generally provide one user sign-on, system-wide with agency associations. This sign-on shall include, at a minimum:</p> <ol style="list-style-type: none"> <li>1. Agency ID (may be user-specified).</li> <li>2. A unique user ID and password.</li> </ol>   | X                          |                |                    |               |

| ID     | Specification   | Current Capability/ Config | Future Release | Custom Development | Not Available |
|--------|---|----------------------------|----------------|--------------------|---------------|
|        | <p>Bidder Response:</p> <p>Through adopted policy and practice, the solution uses no global or general accounts for the eAgent 2.0 application. Each entity authorized for system use is uniquely identified within the system, and their unique identifier cannot be reused. Access to eAgent 2.0 is restricted to authenticated users with active Single Sign-On sessions.</p>  |                            |                |                    |               |
| MAP-23 | <p>The solution should allow for the ability to change password at setup, at sign-on, and during a logged-in session.</p> <p>Bidder Response:</p> <p>eAgent 2.0 provides a link to the proposed self-service password reset (SSPR) feature to enable users to change their passwords at any time, using one of the registered multi-factor authentication methods to prove their identity before changing the password.</p>   | X                          |                |                    |               |
| MAP-24 | <p><del>The solution shall provide a means for users to recall or reset their password using techniques including, but not limited to:</del></p> <ol style="list-style-type: none"> <li><del>1. Forgot My Password techniques used extensively on Internet sites.</del></li> <li><del>2. Challenge questions and answers established during user setup.</del></li> <li><del>3. A temporary complex password if the user successfully answers the challenge question and a required new user password upon successful session sign-on.</del></li> <li><del>4. Ability for the terminal agency coordinator to reset a password if necessary.</del></li> </ol> <p>The solution shall comply with the password standards established by the current version of CJIS Security Policy (v5.9.1).</p> | X                          |                |                    |               |
|        | <p>Bidder Response:</p> <p>The proposed solution complies with the Basic Password Standards specified in section 5.6.2.1.1.1 of the CJIS Security Policy v5.9.1. It accomplishes this using Azure AD default security policies augmented with additional Unisys-configured password policies needed to completely meet the Basic Password Standards.</p>  |                            |                |                    |               |



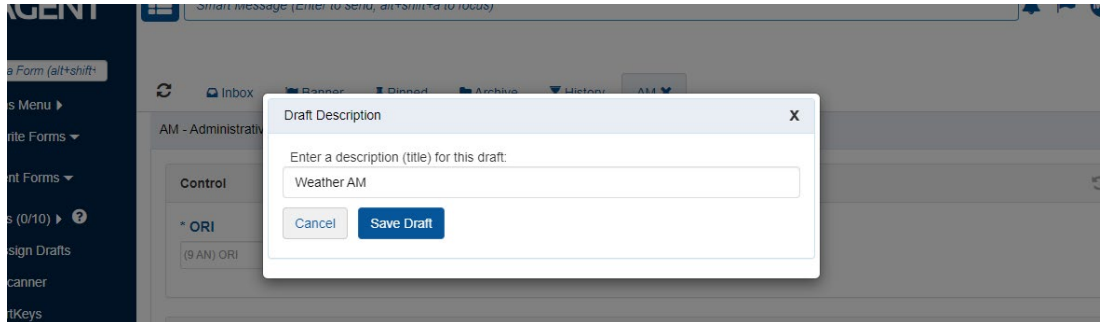
| ID     | Specification   | Current Capability/<br>Config | Future Release | Custom Development | Not Available |
|--------|---|-------------------------------|----------------|--------------------|---------------|
| MAP-25 | The solution shall be able to be configured such that users are notified of impending password expiration. If a user's password has expired, the system shall prompt the user to change the password at sign-on.  | X                             |                |                    |               |
|        | <p>Bidder Response:</p> <p>The solution notifies users of a pending password expiration at intervals specified by the NSP. The user can change their own password at any time up to the expiration date. In keeping with the Basic Password Standards specified in section 5.6.2.1.1.1 of the CJIS Security Policy v5.9.1, once the password expires at the end of the 90-day period, it can no longer be used or changed by the user and must be reset. If the user has registered for self-service password reset, they can reset it themselves using the two other registered authentication methods (e.g., email and authentication app).</p> |                               |                |                    |               |
| 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                             |                |                    |               |
|        | <p>Bidder Response:</p> <p>The LEMS/JX User Management Console provides centralized access to the repository for users and their access information. NSP, and optionally local agency administrators (for their own agency), use the LEMS/JX User Management Console to create user accounts in Azure AD for user identification and authentication. Additional user profile attributes are managed and stored by the LEMS/JX User Management Console. These additional attributes include a named function group for message key authorizations. All administrator actions, including date of entry, are logged.</p>                             |                               |                |                    |               |
| MAP-27 | The solution shall produce an audit trail of all user logon transactions, including password resets, for the direct-connect, HTTPS clients.   | X                             |                |                    |               |
|        | <p>Bidder Response:</p> <p>The solution produces an audit trail of all user logon transactions, including password resets, for the direct-connect, HTTPS clients. The audit trail is available using the Azure Portal.</p>  |                               |                |                    |               |
| MAP-28 | The solution shall allow for the use of pointing devices, hot keys, key combinations, buttons, and hyperlinks.  | X                             |                |                    |               |

| ID     | Specification   | Current Capability/<br>Config | Future Release | Custom Development | Not Available |
|--------|---|-------------------------------|----------------|--------------------|---------------|
|        | <p>Bidder Response:</p> <p>The proposed solution provides standard graphical user interface capabilities for navigation, access and data entry. eAgent 2.0 allows the use of the mouse as a pointing device, it allows users to configure Smart Keys (hotkeys), it provides standard key combinations and buttons to access core functionality as well as hyperlinks to standard web pages.</p> |                               |                |                    |               |
| MAP-29 | <p>The solution's client application shall be Web browser-based and utilize best-of-breed Web form design and usability elements.</p>   | X                             |                |                    |               |
|        | <p>Bidder Response:</p> <p>eAgent 2.0 utilizes standard user design best practices for web-based applications. The system is compatible with standard web functions including print, browser resizing and zoom, and spell check. The solution has been designed from the top down with usability in mind and seeks to provide users with a sleek and intuitive experience.</p>                  |                               |                |                    |               |
| MAP-30 | <p>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.</p>   | X                             |                |                    |               |

| ID     | Specification   | Current Capability/ Config | Future Release | Custom Development | Not Available |
|--------|---|----------------------------|----------------|--------------------|---------------|
|        | <p>Bidder Response:</p> <p>The proposed solution is a web-based implementation with standard web controls for navigation, access and data entry. Our browser-based solution fully supports the native print and screen capture functions provided by the browser. The browser's Print command allows the user to configure a local or network printer. Users are also able to print message data from either the response or a report as shown below.</p>  <p><b>PERSON DOE, JANE 19870101 F NJ</b> (594412737) 12/28/2022 18:58:19</p> <pre>MIME-HDR: 13 MKE: PERSON ORI: NAM: DOE, JANE SEX: F DOB: 19870101 OLS: NJ</pre> <p><b>RESP nj(FULL)</b> (594412737) 12/28/2022 18:58:20<br/> ; MKE/NJ DMV RESPONSE; NAM/DOE,JANE DOB/19870101 SEX/F; NO NJ DMV RECORD FOUND FOR NAM/DOE.JANE DOB/19870101 SEX/F</p> <p style="text-align: center;"><b>Printing Reports in eAgent 2.0</b></p> |                            |                |                    |               |
| MAP-31 | <p>The solution shall allow automatic and/or unattended printing of messages as specified.</p> <p>Bidder Response:</p> <p>Authorized Team Inboxes within eAgent 2.0 can be configured to work with the eAgent Auto Print Client. This Auto Print Client is an application that can be installed on a device. This client can receive and display messages as well as send messages to a specified printer for unattended printing.</p>  | X                          |                |                    |               |
| MAP-32 | <p>The solution should provide value-added features normally associated with a mail system, including:</p> <ol style="list-style-type: none"> <li>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.</li> <li>2. Recovering and resending messages at all levels of the system</li> </ol>   | X                          |                |                    |               |

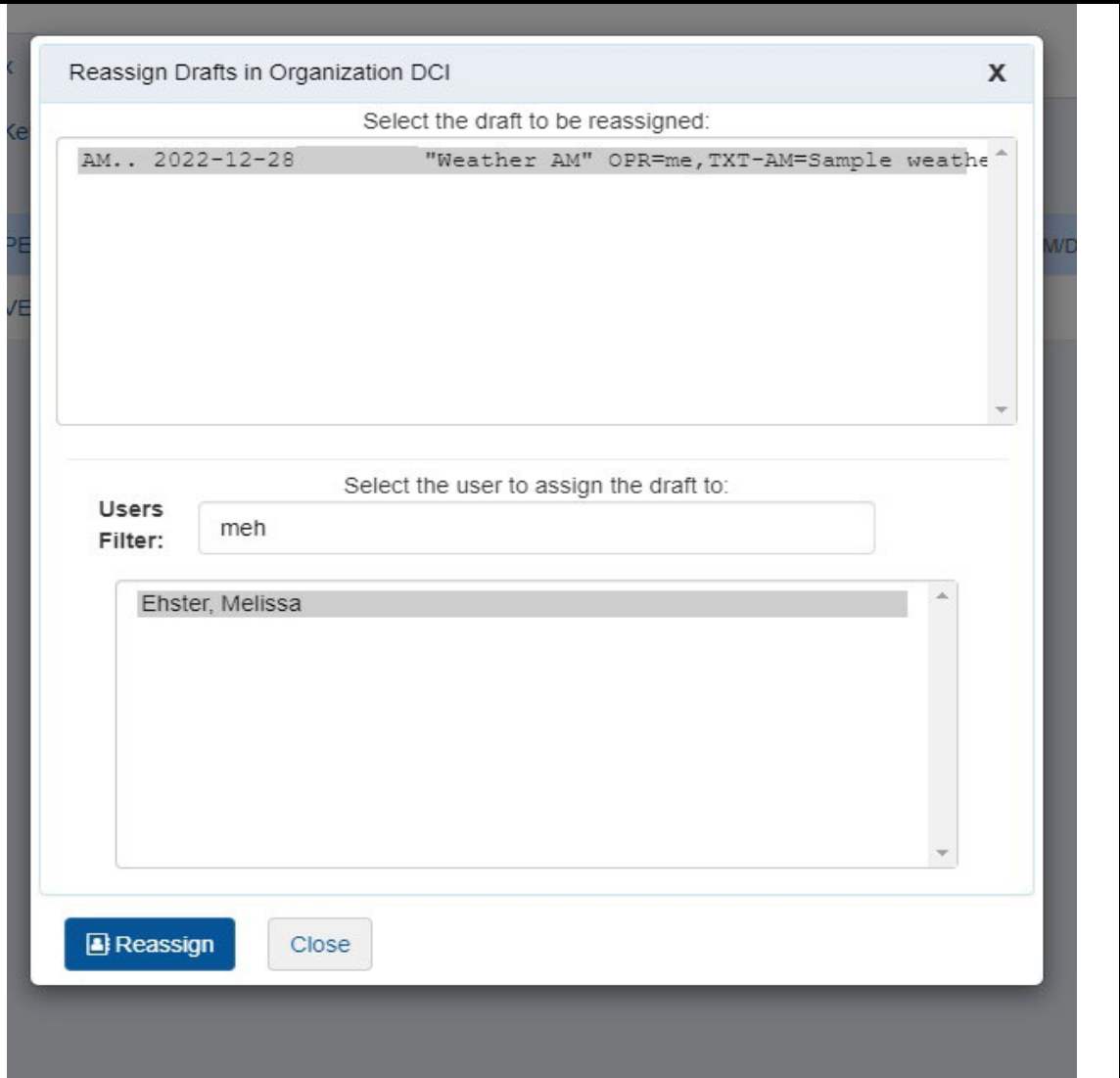
### Bidder Response:

eAgent 2.0 provides the ability to save and update draft forms. Users can assign names to these drafts and can access up to ten (10) drafts at a time.



### Savings Drafts in eAgent 2.0

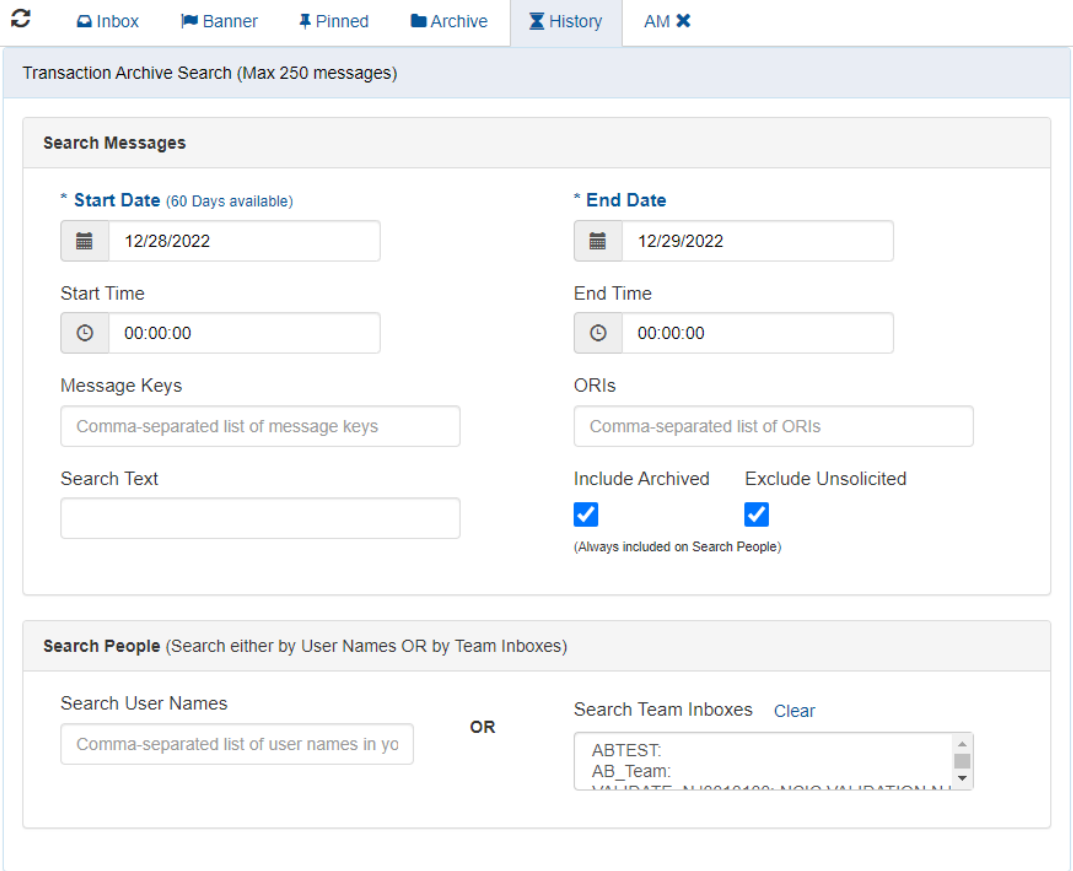
Authorized users can reassign a draft to another user, who can update the draft or complete the form for submission. The system provides a list of available users that the draft can be reassigned to. Users can type in this list to narrow the results and select the desired assignee.



### Reassigning Drafts in eAgent 2.0

Users also have the ability to delete drafts that are no longer needed. Drafts are programmatically purged 60 days after creation/last edit.

Authorized users of eAgent 2.0 can also retrieve messages up to 60 days old within their inbox or from the History tab. The History tab allows users to search across their own inboxes or any Team inboxes that they have access to.

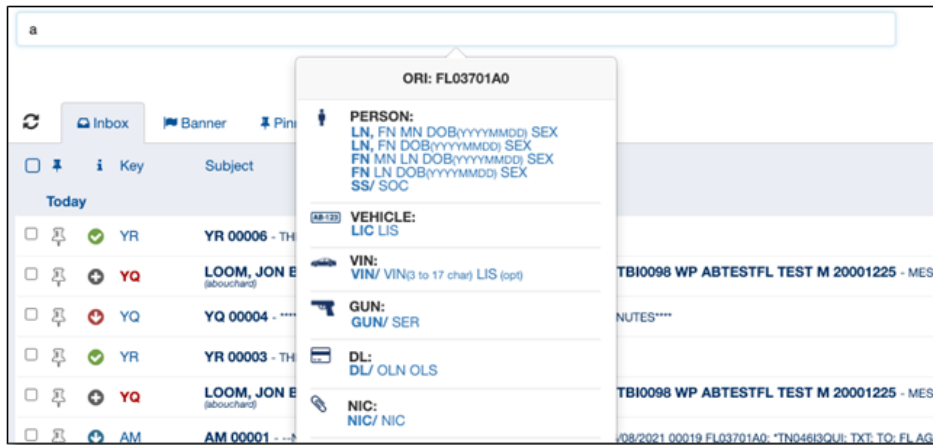
| ID     | Specification   | Current Capability/ Config | Future Release | Custom Development | Not Available |
|--------|---|----------------------------|----------------|--------------------|---------------|
|        |  <p style="text-align: center;"><b>Using the History Tab in eAgent 2.0</b></p> <p>Users can resend messages from either the Inbox or the History results. Both views allow the user to select the message key, which will reopen the form with data prepopulated from the original message. The user has the opportunity to review the data and make any necessary changes within the form or they can submit the data unchanged. This will generate a new message to the switch which will appear at the top of the user's Inbox.</p> | X                          |                |                    |               |
| 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).   |                            |                |                    |               |

**Bidder Response:**

In eAgent 2.0 Users can send queries on guns, persons, vehicles, NICs, VINs, and driver's licenses with Smart Message. As users type in the Smart Message search bar, hints will appear. These are formatting cues which can give users suggestions on how to format their queries. Once the formatting is correct, the hint will turn green and the query can be run.

Note that some Smart Message queries accept either a forward slash (/) or a colon (:) after the query text to successfully complete the query. Forward slash or colon is accepted for VIN, GUN, DL, NIC, and SS (social security number). Neither is accepted for PERSON.

**Note:** Smart Messages are configured at the state level. Each user automatically has access to their state's Smart Message configuration.



**Smart Message Hints**

The table below shows each type of Smart Message and their accepted formats:

| Smart Search Type      | Accepted Formats   | Example   |
|------------------------|--|---|
| <b>Person</b>          | Last, First Middle DOB(YYYY/MM/DD) Sex<br>Last, First DOB(YYYY/MM/DD) Sex<br>First Middle Last DOB(YYYY/MM/DD) Sex<br>First Last DOB(YYYY/MM/DD) Sex | Doe, John James<br>1998/12/30 M<br>Doe, John 1998/12/30 M<br>John James Doe 1998/12/30 M<br>John Doe 1998/12/30 M |
| <b>Vehicle</b>         | (LIC) (LIS)  | ABC123 FL   |
| <b>VIN</b>             | VIN/(VIN- 0-17 characters) (LIS-optional)  | VIN/ ABC12345678901234 FL<br>VIN/ ABC12345678901234   |
| <b>Gun</b>             | GUN/(SER)  | GUN/ABC123  |
| <b>Drivers License</b> | DL/(OLN) (OLS)   | DL/X9999999999999999 FL   |
| <b>NIC</b>             | NIC/(NIC)  | NIC/A123456789  |
| <b>CMD</b>             | CMD/(Command Name)   | CMD/DDBST   |

| ID     | Specification  | Current Capability/ Config | Future Release | Custom Development | Not Available |
|--------|--|----------------------------|----------------|--------------------|---------------|
|        | eAgent 2.0 also provides user forms. Unisys will work with the NSP to determine how the MASTER Query form should be created and how that form should function. This form can contain the fields required to spawn multiple queries.  |                            |                |                    |               |
| 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:<br>eAgent 2.0 provides a consistent user experience aimed at improving efficiencies and reducing overhead on training and administration. eAgent 2.0 is very similar to an email inbox. All incoming messages display in a primary inbox tab, and the other tabs provide similar methods of organization. |                            |                |                    |               |
| 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:<br>Please see the response to MAP-41.   |                            |                |                    |               |
| 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:<br>eAgent 2.0 is designed to be fully keyboard accessible. All features within the application can be initiated by keystroke if desired. Users are provided with a list of commonly used key commands to improve navigation throughout the application.   |                            |                |                    |               |
| 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                          |                |                    |               |



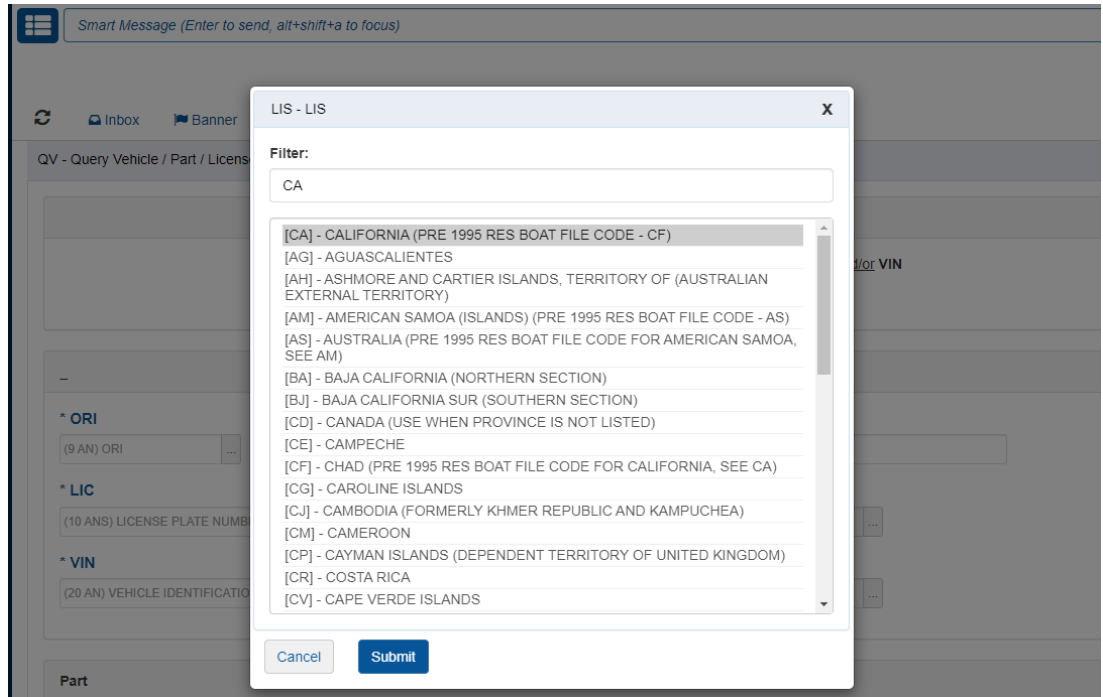
**Bidder Response:**

eAgent 2.0 utilizes standard UI navigation items to improve the user experience and increase efficiency. The system provides a forms menu to navigate all forms in a dropdown as well as the Find a Form function which allows the users to search a form in a type ahead field.



**Form Menu (drop down and type-ahead functionality)**

The code tables in eAgent 2 work similarly to the Find a Form function. Code tables are available to users on all standard fields as well as some custom fields at the discretion of NSP. Fields with code tables have typeahead functionality for users who would like to search all available options. The users can also open the code table in a pop-up window to scroll through all of the options.



**Type Ahead Code Tables of all NCIC Fields**

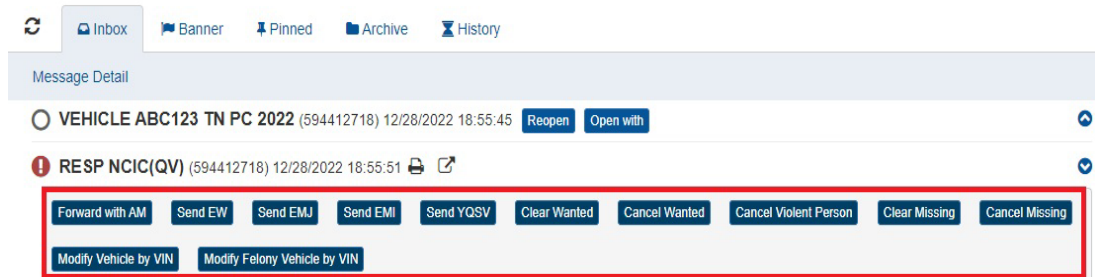
|        |   |   |  |  |  |
|--------|---|---|--|--|--|
| MAP-38 | The solution should provide functionality for code table lookups to | X |  |  |  |
|--------|---|---|--|--|--|

| ID     | Specification   | Current Capability/ Config | Future Release | Custom Development | Not Available |
|--------|---|----------------------------|----------------|--------------------|---------------|
|        | <p>be narrowed down as the user begins to enter data in the code table lookup field.</p> <p>Bidder Response:<br/>Fields with code tables have typeahead functionality that allows code table lookups to be narrowed down as the user begins to enter data in the code table lookup field.</p>               |                            |                |                    |               |
| MAP-39 | <p>The solution shall allow for automated updates to the UI application.</p> <p>Bidder Response:<br/>eAgent 2.0 is a zero-footprint browser-based application. Any updates to the system are made on the eAgent server and automatically pushed to the end user without any manual intervention needed.</p> | X                          |                |                    |               |
| MAP-40 | <p>The solution shall utilize prefill fields in appropriate preformatted screens, eliminating redundant data entry without impacting the usability.</p>   | X                          |                |                    |               |

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

Bidder Response:

eAgent 2.0 defaults certain common values like sending ORI and control field based on the users defaults and permissions. The system also provides several functions to access forms with pre-filled data based on responses. eAgent Response Buttons (ERBs) can be configured based on NSP's needs. Once clicked the ERB will open the form with data from the response pre-filled.



**Easy Response Buttons Pre Populate Fields based off a Response**

eAgent 2.0 also offers a Reopen and Open with option on the outgoing message. Reopen will open a new form with all of the same information from the outgoing message pre-populated. The user can prefill a different message key form by selecting Open With and choosing from the forms available to their user.

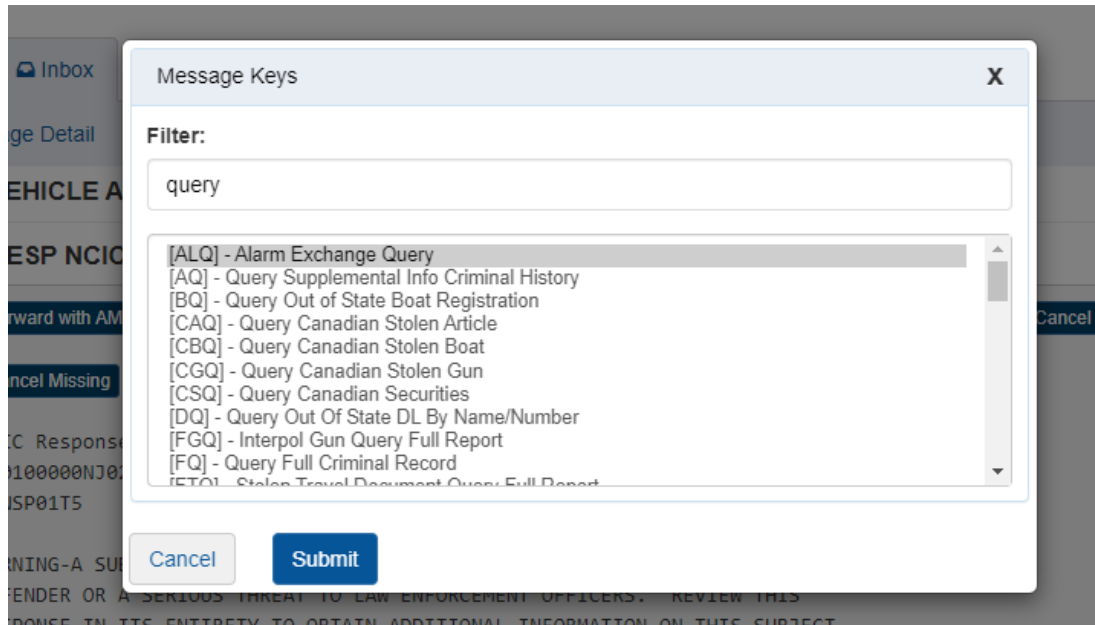
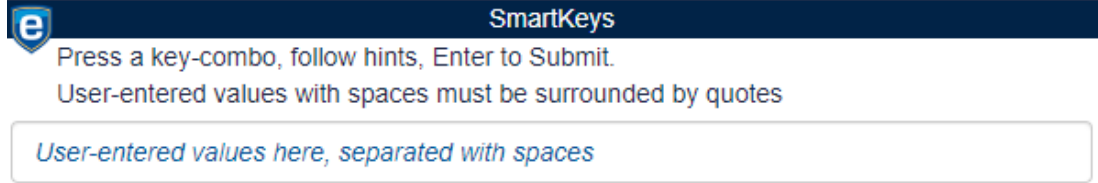


Figure x. Open any Form with the contents of the Response auto populated.

| ID     | Specification   | Current Capability/ Config | Future Release | Custom Development | Not Available |
|--------|---|----------------------------|----------------|--------------------|---------------|
| MAP-41 | <p>The solution shall provide quick entry methods such as hot keys to minimize the keystrokes required to perform inquiries. Such hot keys would enable the entry of single data inquiries on the command line, and the inquiry would then be executed according to the hot key used. The single data inquiries include, but are not limited to:</p> <ol style="list-style-type: none"> <li>1. Driver's license number (DLN/OLN).</li> <li>2. License plate number.</li> <li>3. Name.</li> <li>4. Vehicle identification number.</li> </ol> | X                          |                |                    |               |

**Bidder Response:**

eAgent 2.0 provides quick entry methods through hotkeys in various locations to minimize the keystrokes required to perform certain tasks. eAgent 2.0 allows for preset 'SmartKeys' that may be defined globally and/or by the user. Users can preset the default values and user entered values to be sent. Users select the message to be sent with a preconfigured hotkey.





**e SmartKeys**

Press a key-combo, follow hints, Enter to Submit.  
User-entered values with spaces must be surrounded by quotes

*User-entered values here, separated with spaces*

Type a hot-key-combo to begin, or click on link below to review in a form...

| SmartKeys List (Auto-Submit)  |      |   |
|---|------|---|
| 🔒 next to MKE indicates user-only SmartKey  |      |   |
| Launch  | MKE  | Description                                   |
| <a href="#">alt+f1</a>         | 🔒 QB | Mtest 2<br><b>User:</b> BHN B-REG<br>Default: |
| <a href="#">ctrl+shift+a</a>  | QV   | Mtest<br><b>User:</b> LIC<br>Default: LIS=OR  |

**Configurable Hotkeys through eAgent 2.0 “SmartKeys”**

Smart Message is another feature that provides users with the ability to enter data on a single line to quickly submit a message. Users can navigate to Smart Message from any place in the application by selecting alt+shift+a. Smart Message can be configured to meet the needs for NSP. The COTS solution comes with the following queries configured:

- Vehicle by Plate
- Vehicle by VIN
- Person by Name and Date of Birth
- Person by Social
- Driver query by Operator License Number (OLN)
- Gun by Serial Number
- and various queries by NIC

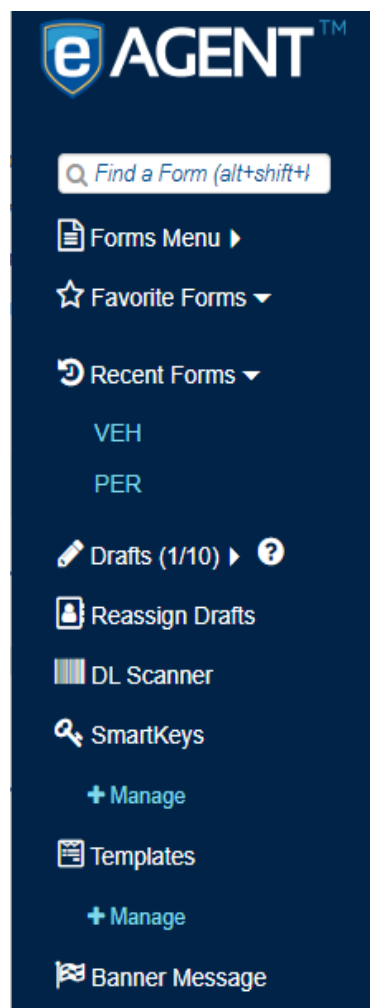
See the response to MAP-33 for more information about Smart Message.

eAgent 2.0 has numerous other features that improve the experience for the user such as:

- Menu allows for the user to identify five of their most used or favorite message keys (see Graphic of eAgent 2.0 Side Menu)
- Keeps track of the most frequent five message keys submitted by the user and puts them in the menu area
- Retains the last menu item accessed and reinserts the user at that point upon reentry into the menu

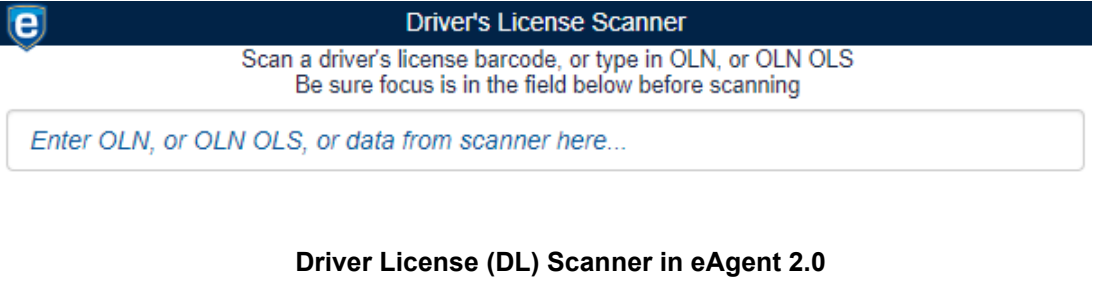
- Highlights in the response search parameters used for the query
- Allows for search within responses using browser based Ctrl+F functionality
- Allows for sorting of responses based on response headings
- Drop down menus where appropriate for acceptable values
- Configurable default values for some fields
- Type ahead for field values
- Required field indicators on each form
- Prefill subsequent/follow-up transactions based upon the results from an inquiry
- Uses response icons, definable by NSP to indicate errors, hits, no hits etc.

The sidebar navigation, as seen below, is a user-friendly design for users to navigate through the application. There are areas to set favorite forms using quick key combinations and also view any recent forms. Users can also save drafts of forms they are working on.



**Left Side Navigation of eAgent 2.0 includes Favorite Forms and more.**

eAgent 2.0 also provides single line quick entry for driver's license information from either the keyboard or a barcode scanner. The DL Scanner Window allows users to bulk submit DL information by either typing it in or scanning while keeping focus in the window. Messages will be generated based on NSP's configuration needs and will display at the top of the user's inbox for review.

| ID     | Specification  | Current Capability/ Config | Future Release | Custom Development | Not Available |
|--------|--|----------------------------|----------------|--------------------|---------------|
|        |  <p>The screenshot shows a dark blue header with a shield icon containing the letter 'e' and the text "Driver's License Scanner". Below the header, there is a light blue instruction: "Scan a driver's license barcode, or type in OLN, or OLN OLS. Be sure focus is in the field below before scanning". A white text input field contains the placeholder text "Enter OLN, or OLN OLS, or data from scanner here...". At the bottom of the screenshot, the text "Driver License (DL) Scanner in eAgent 2.0" is displayed.</p> |                            |                |                    |               |
| 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:**

eAgent 2.0 is organized with two main navigation bars. The left panel navigation provides information with optional expansions to condense information at the user's discretion. The top navigation includes additional menus that provide information the user may need to access more infrequently. This includes the following:

- the YQ Status dropdown
- the Banner icon
- the User dropdown

The YQ Status dropdown provides insight into any Hit Confirmation (YQ) messages that have been received to the Inbox.

The screenshot shows a user interface with a search bar and navigation icons (bell, flag, ME). Below is a dropdown menu titled "Hit Notification Status" with a filter "Only not-responded" and an "Action Report" link. The data is as of 12/29/2022 12:39:07. The table below lists bid responses:

| Req # | Type | Res | NIC        | Rcvd   | Due   | ORI | Action By | Stat |
|-------|------|-----|------------|--------|-------|-----|-----------|------|
| YQ 1  | R    |     | W987654321 | 12:38p | 59:21 |     | mehster   |      |
| YQ 1  | U    |     | W123456789 | 12:36p | 7:14  |     | mehster   |      |

**YQ (Hit) Status Menu**

The Banner icon displays an indicator when there is an unread Banner Message that needs review.

The screenshot shows a search bar with the text "focus)" and navigation icons (bell, flag, ME). The flag icon is highlighted with a red square, indicating an unread banner message.

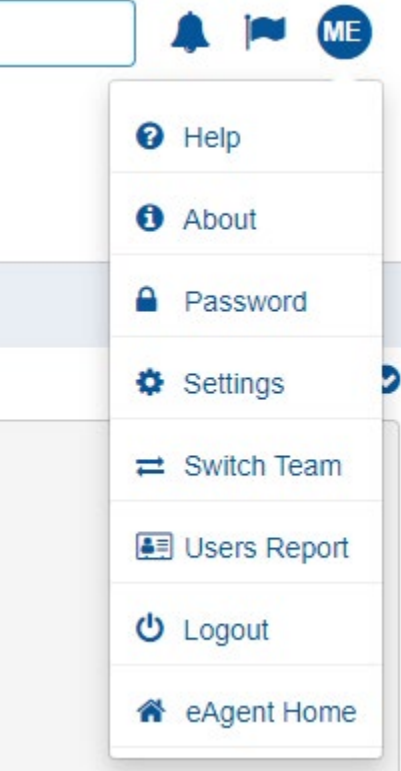
**Banner Messages Icon to see all notifications**

These Banner Messages can be generated by authorized users to notify all eAgent 2.0 users of information such as system outages or statewide alerts.

The screenshot shows a modal window titled "Banner Message" with the text "12/29/2022 12:35:08: This is a Test Message". At the bottom, there are two buttons: "Close" and "Open in Inbox".

**Example Test Banner Message in eAgent 2.0**



| ID     | Specification   | Current Capability/ Config | Future Release | Custom Development | Not Available |
|--------|---|----------------------------|----------------|--------------------|---------------|
|        | <p>The User dropdown provides additional links that the user might need access to such as Settings, Help, and Logout actions.</p>  <p style="text-align: center;"><b>Help Menu in eAgent 2.0</b></p> |                            |                |                    |               |
| MAP-43 | The solution shall allow users to move forward and backward to complete data fields.  | X                          |                |                    |               |

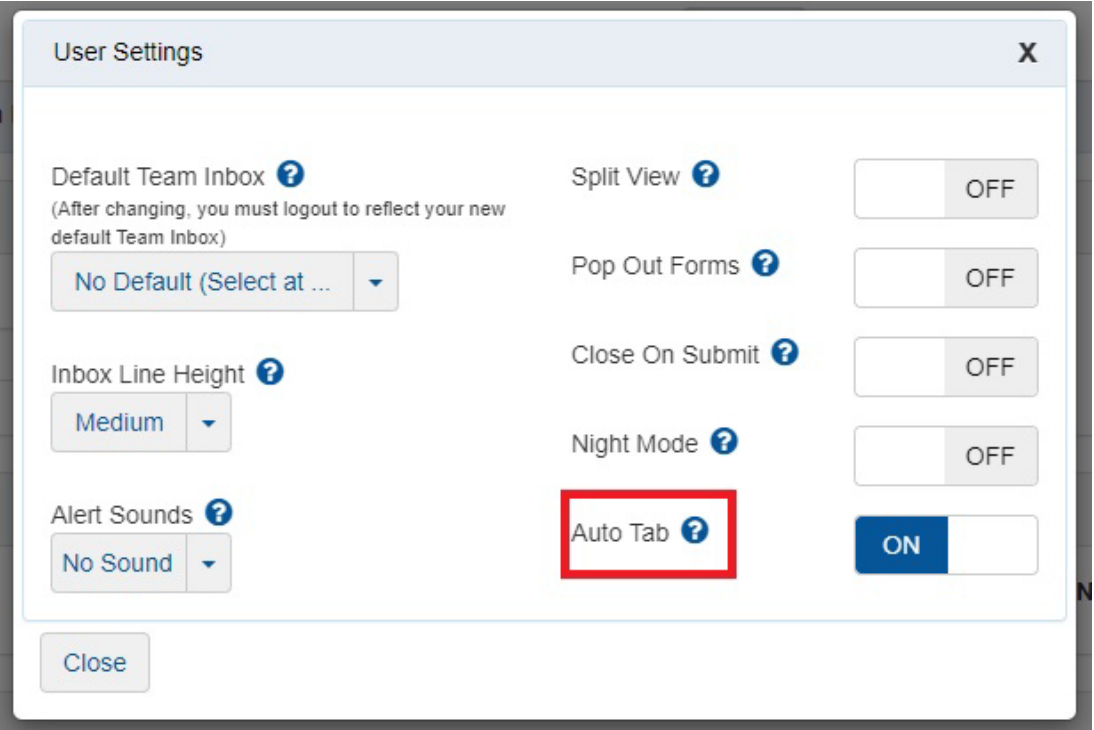
### Bidder Response:

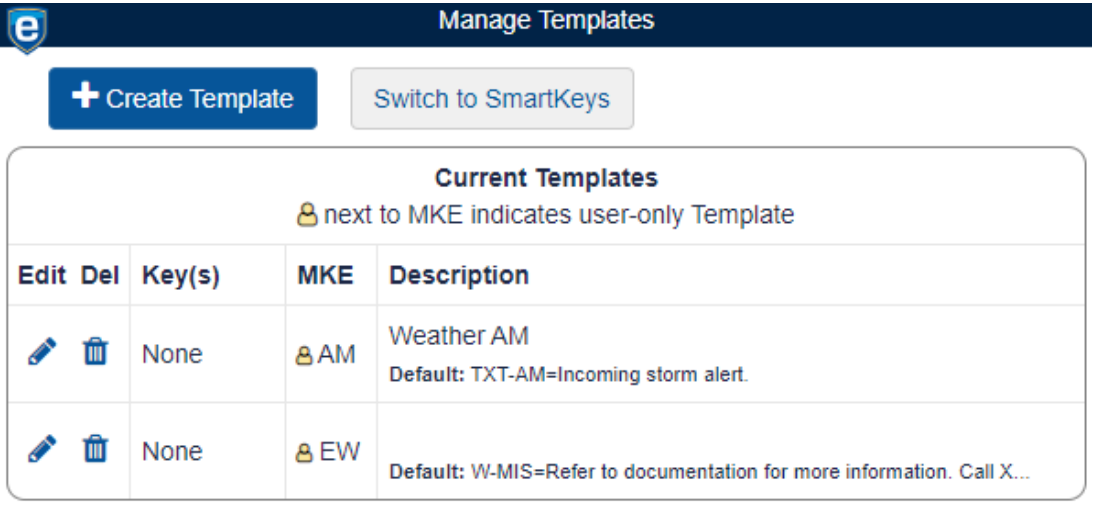
eAgent 2.0 is fully keyboard accessible. This includes allowing users to tab through the form fields. Users can also Shift+Tab back to previous fields. This allows the users to efficiently move through the form from the keyboard without having to pause to use the mouse to navigate back. The following image shows a form and the field lay out which users can tab through.

The screenshot displays a web application interface for a 'Query Stolen Boat' form. At the top, there is a navigation bar with icons for 'Inbox', 'Banner', 'Pinned', 'Archive', 'History', and 'QB'. Below this, the page title is 'QB - Query Stolen Boat' with a star icon and a keyboard shortcut '(Ctrl+Shift+B)'. The form is organized into three main sections, each with a refresh icon in the top right corner. The first section is labeled '\* ORI' and contains a text input field for '(9 AN) ORI'. The second section contains a message: 'One of the following identifiers is required: NIC Or REG Or BHN'. The third section is divided into three columns: '\* NIC' with a '(10 AN) NCIC NUMBER' field, '\* REG' with a '(8 AN) BOAT REGISTRATION N' field, and '\* BHN' with a '(20 AN) BOAT HULL NUMBER' field. Below these sections, there are two more fields: 'Image Indicator' with a 'Y' value and a 'Related Search' field with '(1 A) RELATED SEARCH'. At the bottom of the form, there are buttons for 'Save Draft', 'Submit', 'Cancel', and 'Clear Form'.

### Tab Enabled and Type Ahead Forms

Users can also enable the Auto Tab setting within eAgent 2.0. This is a user specific setting which will auto tab the users focus to the next field once they complete the requirements for the field they are in.

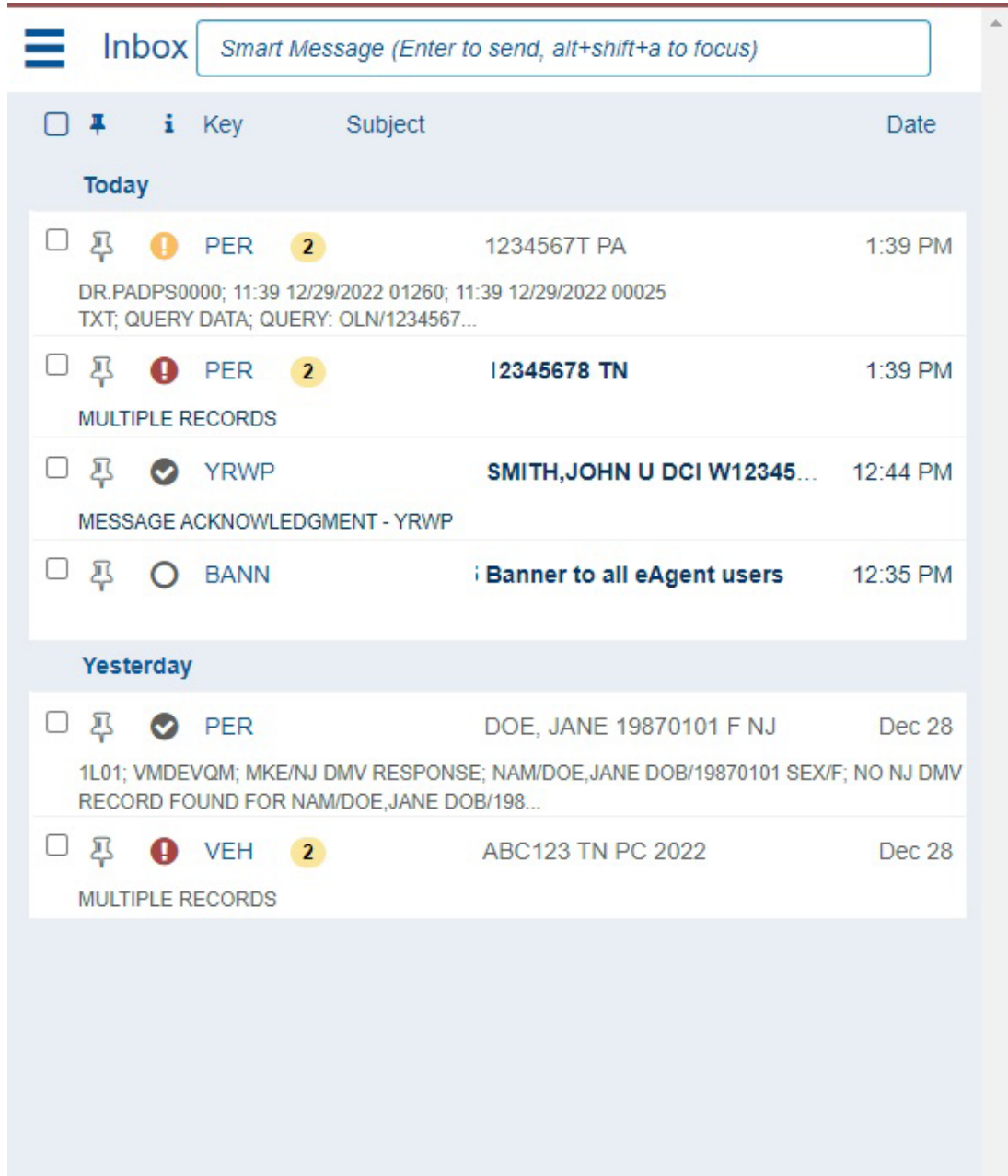
| ID     | Specification  | Current Capability/ Config | Future Release | Custom Development | Not Available |
|--------|--|----------------------------|----------------|--------------------|---------------|
|        |  <p>The screenshot shows a 'User Settings' dialog box with several options. The 'Auto Tab' option is highlighted with a red rectangular box. Other options include 'Default Team Inbox', 'Split View', 'Pop Out Forms', 'Close On Submit', 'Night Mode', 'Inbox Line Height', and 'Alert Sounds'. Each option has a help icon (question mark) and a corresponding control (dropdown menu or toggle switch). The 'Auto Tab' toggle is currently set to 'ON'.</p> |                            |                |                    |               |
| MAP-44 | <p>The solution shall notify users to correct spelling errors without having to retype the entire field.</p> <p>Bidder Response:<br/>eAgent 2.0 is a browser-based solution. It utilizes the browser's native spell check functionality to provide feedback to users on spelling errors in text fields.</p>  | X                          |                |                    |               |
| MAP-45 | <p>The solution shall provide users with standard form navigation and allow easy movement from one work area to another via mouse or keyboard.</p> <p>Bidder Response:<br/>See the response to MAP-43.</p>   | X                          |                |                    |               |
| MAP-46 | <p>The solution shall provide hot keys for frequently used functions (e.g., opening a form template).</p>  | X                          |                |                    |               |

| ID     | Specification   | Current Capability/ Config | Future Release | Custom Development | Not Available |
|--------|---|----------------------------|----------------|--------------------|---------------|
|        | <p>Bidder Response:</p> <p>eAgent 2.0 provides preconfigured hot keys to navigate to certain frequently used functions like Find a Form, Smart Message, and Submit form. Users are also able to set key combinations for Favorite Forms, Smart Keys and Templates.</p>  |                            |                |                    |               |
| MAP-47 | <p>The solution shall enable users to recall (configurable by NSP) and resend recently sent messages. The solution shall also provide cut-and-paste functionality.</p>  | X                          |                |                    |               |
|        | <p>Bidder Response:</p> <p>See the response to MAP-32.</p> <p>As a web-based solution. all browser shortcuts such as cut-and-paste or copy-and-paste are supported in eAgent 2.0.</p>   |                            |                |                    |               |
| MAP-48 | <p>The solution should provide default, configurable values for fields based on previous input, referential lookup, or other mechanisms. It should incorporate currently used defaults.</p> <p>Bidder Response:</p> <p>The response to MAP-40 covers the ERB, Open With, and Reopen functionality which defaults values based on previous input.</p> <p>Users can also set default values in specific forms by creating Templates. These templates can apply to an agency or a team and allows the users to configure default values in forms that can be resubmitted again and again. These templates can also be edited and deleted as needed.</p>  <p style="text-align: center;"><b>Creating Templates for Frequent Use in eAgent 2.0</b></p> | X                          |                |                    |               |

| ID     | Specification   | Current Capability/<br>Config | Future Release | Custom Development | Not Available |
|--------|---|-------------------------------|----------------|--------------------|---------------|
| 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:<br>The solution provides 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. This is accomplished by providing a link in eAgent 2.0 to a web page where such bulletins are uploaded.  |                               |                |                    |               |
| MAP-50 | The solution shall provide lookup tables for valid values for fields.   | X                             |                |                    |               |
|        | Bidder Response:<br>Please see the response to MAP-37.  |                               |                |                    |               |
| MAP-51 | <del>The solution should provide stackable transactions functionality, such as semi-batch processing.</del><br><br>The solution should provide stackable transactions functionality, such as batch processing.  | X                             |                |                    |               |
|        | Bidder Response:<br>The solution supports a stackable transaction functionality through a batch processing capability. A text file containing the transactions to be run is uploaded by NSP administrators or automatically transferred to a batch processing folder. NSP then configures the batch process to run using the LEMS/HX Console batch processing screens. The batch process for each batch file can be scheduled to run at specified dates/times. The batch processing results are stored in a folder for subsequent download. |                               |                |                    |               |
| 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:

eAgent 2.0 is built with a responsive design that works on both desktop and mobile environments. The system works with both Android and iOS versions of supported browsers. The responsive web page is able to support both phone and tablet sizes.



### eAgent 2.0 Inbox With Collapsed Side Menu Navigation for Mobile Devices

The system reorganizes the functionality into intuitive menus accessible from the menu icon on the top left of the screen. The mobile view of the application contains a majority of the feature set with a few exceptions. The mobile view of the application is tailored for the feature set of a mobile user. Features like the YQ Workflow and status functionality are disabled for users

| ID     | Specification   | Current Capability/ Config | Future Release | Custom Development | Not Available |
|--------|---|----------------------------|----------------|--------------------|---------------|
|        | <p>accessing eAgent 2.0 from a mobile device, simplifying the navigation and providing more focused content.</p> <p>Using a responsive browser-based design for mobile use allows eAgent 2.0 to provide mobile functionality without storing CJl on the device, simplifying CJIS Security Policy requirements. Unisys will work with NSP to understand all requirements of the mobile application to ensure the functionality provided meets policy requirements.</p>   |                            |                |                    |               |
| MAP-53 | <p>If the solution accommodates access from a mobile device (MAP-52), the solution <b>should</b> provide mobile device management features for users accessing the solution from a mobile UI.</p>   |                            |                |                    | X             |
|        | <p>Bidder Response:</p> <p>The solution accommodates access from a mobile device, as described on our response to MAP-51, using a mobile web browser (no app installation is required). However, mobile device management (MDM) features, as described in section 5.13.2 of the FBI CJIS Security Policy v5.9.1, realistically can only be deployed and managed by the agency that provides or authorizes the mobile device. Often the MDM protects other means of accessing CJl, such as secure email, beyond the eAgent 2.0 UI. Therefore, the solution does not include MDM. However, of the NSP can specify more specific requirements for MDM (for example, provide MDM for 110 sworn officers in the NPS Investigative Services Division using Android smart phones), Unisys can provide the MDM from a third-party MDM vendor at an additional cost.</p> |                            |                |                    |               |

| ID                          | Specification  | Current Capability/ Config | Future Release | Custom Development | Not Available |
|-----------------------------|--|----------------------------|----------------|--------------------|---------------|
| <b>Database and Backups</b> |  |                            |                |                    |               |
| MAP-54                      | <p>The solution shall provide an ORI table. The elements within the table shall be configurable by NSP.</p>  | X                          |                |                    |               |
|                             | <p>Bidder Response:</p> <p>The proposed message switch, LEMS/JX, uses ORIs for the purposes of message routing. LEMS/JX maintains an ORI table and a device table, and associates zero or more ORIs to each Device ID. A message to be routed by ORI (such as an Administrative Message received from Nlets) is then routed by LEMS/JX to the Device ID(s) assigned to that ORI.</p> |                            |                |                    |               |
| MAP-55                      | <p>The solution should utilize relational database solutions.</p>  | X                          |                |                    |               |
|                             | <p>Bidder Response:</p> <p>The LEMS/JX MSS and HF use Azure SQL Database, which provides for the development and maintenance of relational database structures.</p>  |                            |                |                    |               |

| ID     | Specification  | Current Capability/ Config | Future Release | Custom Development | Not Available |
|--------|--|----------------------------|----------------|--------------------|---------------|
| 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:<br>Configuration data is accessed and maintained using the LEMS/JX Console as the standard management system.   |                            |                |                    |               |
| MAP-57 | The solution should provide tools for monitoring and enhancing database organization and performance.  | X                          |                |                    |               |
|        | Bidder Response:<br>The solution uses SQL Server Management Studio (a feature of SQL Server and Azure SQL Database) to provide capabilities for monitoring and enhancing database organization and performance.  |                            |                |                    |               |
| MAP-58 | <p><del>The solution should provide tools for database design and development, including documentation, diagramming, normalization, database generation, screen design and generation, report design and generation, and procedure maintenance tools.</del></p> <p>The solution should provide best practice database design and development, including documentation, diagramming, normalization, database generation, screen design and generation, report design and generation, and procedure maintenance tools.</p> |                            |                |                    |               |
|        | Bidder Response:<br>The solution provides best practice database design and development, primarily using SQL Server Management Studio (SSMS). This includes database generation, normalization, and stored procedures. Database documentation and diagramming is provided in DEL-08 Database Design Document. Screens are not designed or generated using database tools, in keeping with modern multi-tier architectures. Report design and generation is performed using SQL Server Reporting Services (SSRS).         |                            |                |                    |               |
| MAP-59 | The solution should provide for the development and maintenance of relational database structures for the support of MSS.  | X                          |                |                    |               |



| ID     | Specification   | Current Capability/ Config | Future Release | Custom Development | Not Available |
|--------|---|----------------------------|----------------|--------------------|---------------|
|        | <p>Bidder Response:</p> <p>The LEMS/JX MSS uses Azure SQL Database, which provides for the development and maintenance of relational database structures for the support of the MSS.</p>  |                            |                |                    |               |
| MAP-60 | <p>The solution shall have the capability to execute scheduled, unattended online system backups with minimal impact to system performance.</p>   | X                          |                |                    |               |
|        | <p>Bidder Response:</p> <p>The Unisys proposed solution has the capability to execute scheduled, unattended online system backups without affecting system performance. The Azure Backup service backs up data to the Microsoft Azure Government cloud. Azure Backup delivers these key benefits, within the Unisys proposed solution:</p> <p>Back up Azure IaaS VMs: Azure Backup provides independent and isolated backups to guard against accidental destruction of original data. Backups are stored in a Recovery Services vault with built-in managed recovery points. Configuration and scalability are simple, backups are optimized, and you can easily restore as needed.</p> <p>Scales easily: Azure Backup uses the underlying power and unlimited scale of the Azure cloud to deliver high-availability with no maintenance or monitoring overhead.</p> <p>Keeps data secure: Azure Backup provides solutions for securing data in transit and at rest.</p> <p>Retains short and long-term data: Using Azure backup, we can use Recovery Services vaults for short-term and long-term data retention. Azure doesn't limit the length of time data can remain in a Recovery Services vault. Azure Backup has a limit of 9999 recovery points per protected instance.</p> <p>Automatic storage management: Azure Backup automatically allocates and manages backup storage.</p> |                            |                |                    |               |
| MAP-61 | <p>The solution shall have the ability to restore from system backups.</p>  | X                          |                |                    |               |
|        | <p>Bidder Response:</p> <p>The Unisys proposed solution has the ability to restore from system backups using Azure Backup. The Azure Backup service backs up data from Azure VMs. Data can be backed up and recovered at a granular level, including backup of files, folders, machine system state, and app-aware data backup. Azure Backup handles data at a more granular level. As an example, if a specific data became corrupted, the Unisys solution with Azure backup allows to restore the specific data, thus having the granularity of location and part of data.</p>  |                            |                |                    |               |
| MAP-62 | <p>The solution shall provide robust system backup/archiving tools and strategies.</p>  | X                          |                |                    |               |

| ID | Specification  | Current Capability/ Config | Future Release | Custom Development | Not Available |
|----|--|----------------------------|----------------|--------------------|---------------|
|    | <p>Bidder Response:</p> <p>The Unisys proposed solution provides robust system backup/archiving tools and strategies that work in conjunction with Azure, as described in our detailed explanation for MAP-60. It does not need to work in conjunction with the NPS storage system in place because it does not use the NPS storage system in place.</p> |                            |                |                    |               |

**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 |
|----------------------------------|--|----------------------------|----------------|--------------------|---------------|
| <b>Dissemination and Reports</b> |  |                            |                |                    |               |
| 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                          |                |                    |               |
|                                  | <p>Bidder Response:</p> <p>Reports are monitored and managed using the Job Activity Monitor capability of SQL Server Management Studio (SSMS).</p>   |                            |                |                    |               |
| MPU-2                            | The solution shall have a report scheduler that can schedule reports to be automatically run at user-defined times.  | X                          |                |                    |               |
|                                  | <p>Bidder Response:</p> <p>Reports are scheduled using the scheduling capabilities of capability of SSMS and SSRS.</p>   |                            |                |                    |               |
| MPU-3                            | The solution shall provide reports, both of real-time and snapshot data, which are publishable.  | X                          |                |                    |               |
|                                  | <p>Bidder Response:</p> <p>Near real-time and snapshot data reports can be rendered in comma-separated variable format, text format, and PDF format for publishing to an intranet or the Internet using the SSRS Report Manager.</p> |                            |                |                    |               |

| ID    | Specification   | Current Capability/ Config | Future Release | Custom Development | Not Available |
|-------|---|----------------------------|----------------|--------------------|---------------|
| 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:<br>An end user can be authorized to retrieve their own transaction log activity using the LEMS/JX RET command, which can be submitted using an eAgent 2.0 form. The RET command allows the user to specify the following search parameters: <ul style="list-style-type: none"> <li>• Start date and time</li> <li>• End date and time</li> <li>• Message inputs, message outputs, or both</li> <li>• Input sequence number or range of input sequence numbers</li> <li>• Message sequence number or range of message sequence numbers</li> </ul> |                            |                |                    |               |

### 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 |
|-------------------|---|----------------------------|----------------|--------------------|---------------|
| <b>Interfaces</b> |   |                            |                |                    |               |
| MIT-1             | The solution shall minimally provide the interface and protocol capabilities of the current MSS environment.  | X                          |                |                    |               |
|                   | Bidder Response:<br>To the best of our knowledge, the solution is capable of providing the interface and protocol capabilities of the current environment, based on the description in RFP section V.B PROJECT ENVIRONMENT. In a few cases, the current MSS interfaces are obsolete and will be replaced with supported interfaces; for example, the NCIC TCP/IP socket interfaces will be replaced by CJIS NCIC NIEM web services. |                            |                |                    |               |
| MIT-2             | The solution shall interface with NCIC (including full Interstate Identification Index [III] capability) and provide file transfer functionality.   | X                          |                |                    |               |

| ID    | Specification  | Current Capability/ Config | Future Release | Custom Development | Not Available |
|-------|--|----------------------------|----------------|--------------------|---------------|
|       | <p>Bidder Response:</p> <p>The LEMS/JX MSS interfaces with NCIC using the CJIS NCIC NIEM Sync web service and the CJIS NCIC NIEM Notifications web service to provide full NCIC interface capabilities.</p> <p>LEMS/JX interfaces with III using the CJIS III NIEM Sync web service and the CJIS III NIEM Notifications web service to provide full III interface capabilities.</p> <p>LEMS/JX supports the NCIC Electronic File Transfer Service (EFTS) for file transfer functionality.</p>          |                            |                |                    |               |
| MIT-3 | <p>The solution shall interface with Nlets – the International Justice &amp; Public Safety Information Sharing Network (including full Interstate Identification Index [III] capability).</p> <p>Bidder Response:</p> <p>LEMS/JX interfaces with Nlets using the Nlets web services interface and Nlets NIEM message formats. The interface supports sending and receive CR messages in response to III queries from in-state and Nlets users, which is the full III capability provided by Nlets.</p> | X                          |                |                    |               |
| MIT-4 | <p>The solution shall interface with the Nebraska Patrol Criminal History (PCH) system. PCH is the state’s computerized criminal history (CCH) system.</p> <p>Bidder Response:</p> <p>LEMS/JX interfaces to the PCH in accordance with the existing PCH web service interface documentation provided by the NSP.</p>   | X                          |                |                    |               |
| MIT-5 | <p>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.</p> <p>Bidder Response:</p> <p>The LEMS/JX MSS is already integrated with the proposed hot files solution using NIEM web services.</p>  | X                          |                |                    |               |
| MIT-6 | <p>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. <b>The current communications protocol for communicating to regional systems is DMPP-2020.</b></p>   | X                          |                |                    |               |

| ID    | Specification  | Current Capability/ Config | Future Release | Custom Development | Not Available |
|-------|--|----------------------------|----------------|--------------------|---------------|
|       | <p>Bidder Response:</p> <p>LEMS/JX seamlessly enables all current regional system interfaces to send properly formatted NCIC messages and transactions using the DMPP-2020 protocol and existing legacy formats. LEMS/JX also provides LEMS Services, a modern, simple Soap web service using NIEM formats.</p>  |                            |                |                    |               |
| MIT-7 | <p>The solution shall interface with Nebraska's Department of Motor Vehicles (DMV's) Vehicle Title and Registration (VicToRy) server.</p>  | X                          |                |                    |               |
|       | <p>Bidder Response:</p> <p>LEMS/JX interfaces to the DMV VicToRy server in accordance with the existing VicToRy web service interface documentation provided by the NSP.</p>   |                            |                |                    |               |
| MIT-8 | <p>The solution shall interface with the Office of the Chief Information Officer (OCIO) state mainframe for DMV driver's licenses and photos.</p>  | X                          |                |                    |               |
|       | <p>Bidder Response:</p> <p>LEMS/JX interfaces to the OCIO state mainframe for DMV driver's licenses and photos in accordance with the existing interface documentation provided by the NSP.</p>  |                            |                |                    |               |
| MIT-9 | <p>The solution shall be compliant with, recognize, and allow for data transactions in accordance with the NIEM data model.</p>  | X                          |                |                    |               |
|       | <p>Bidder Response:</p> <p>Our proposed solution is compliant with, recognizes, and allows for data transactions in accordance with the NIEM data model. NIEM is used for all MSS communications with NCIC, III, Nlets, State hot files, the eAgent 2.0 UI, in-state systems that support NIEM, and regional systems that desire a modern, standards-based interface rather than the current old, proprietary interface and proprietary/legacy message formats.</p> <p>LEMS/JX has advanced transformation capabilities that allow it to readily transform between NIEM formats and legacy or text formats. For example, NCIC requests from regional systems in dot-slash or proprietary XML formats can be transformed to NCIC NIEM before sending to NCIC. NCIC responses received in NCIC NIEM XML format can be transformed to text for display to users.</p> <p>This means that systems can be configured to communicate natively without the additional development required by proprietary interface protocols and formats. Furthermore, any system conforming to these open standards can be incorporated into the solution with reduced effort.</p> <p>Unisys is a leader in NIEM adoption and thought leadership, participating in the development of NIEM and being among the first to implement Nlets, NCIC, and III messaging using NIEM.</p> |                            |                |                    |               |

| ID     | Specification  | Current Capability/ Config | Future Release | Custom Development | Not Available |
|--------|--|----------------------------|----------------|--------------------|---------------|
| 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:<br>LEMS/JX provides transaction-based electronic data access to third-party systems (e.g., DMV, CAD) for query/exchange and other transaction-based exchanges. LEMS/JX supports both modern, standards-based electronic data access technologies, such as NIEM/XML web services, and legacy technologies, such as DMPP-2020, IBM mainframe protocols, and legacy message formats. |                            |                |                    |               |
| MIT-11 | The solution should utilize Web services for information exchanges between interfacing applications.   | X                          |                |                    |               |

| ID     | Specification  | Current Capability/ Config | Future Release | Custom Development | Not Available |
|--------|--|----------------------------|----------------|--------------------|---------------|
|        | <p>Bidder Response:</p> <p>Unisys is a leader in the use of Web Services in message switching. In June 2006, the Unisys LEMS/JX installed at the Georgia Bureau of Investigation was the first state message switch to implement the complete set of Nlets XML transactions using Nlets Web Services. Some of our LEMS/JX installations use web services exclusively or nearly exclusively for all interfaces. LEMS/JX comes with a set of request and response web services (“LEMS Web Services”), along with web services for Nlets and FBI CJIS (NCIC, III, and NICS). LEMS/JX also includes a set of secure web services for administration of LEMS/JX (“LEMS Admin Web Services”). Web services are programmed in .NET and new web services can quickly and easily be added by creating a simple Dynamic Link Library (DLL) file using the web service’s Web Service Description Language (WSDL) file. Representational state transfer (RESTful) web services are available as well. All components of the proposed solution use NIEM XML web services for internal information exchange, including LEMS/JX.</p> <p>LEMS/JX Web Service capabilities include:</p> <ul style="list-style-type: none"> <li>• The LEMS Request Service and LEMS Response Service—a Web Service provider consumed by other systems to send messages to LEMS/JX</li> <li>• The LEMS Response Client and LEMS Request Client—a Web Service consumer to send messages from LEMS/JX to Web Services provided by other systems</li> <li>• Asynchronous architecture pattern (one-way or request/response when the response is an acknowledgement)</li> <li>• Synchronous architecture patterns (request/response when the response is the reply to the request)</li> <li>• Generalized (when the content is a string or any content)</li> <li>• Specific (when the content is specified by an XML schema imported into the Web Services Description Language [WSDL] file)</li> <li>• Compliance with the Global Reference Architecture (GRA) Web Service Specification</li> <li>• Compliance with Web Services-Interoperability (WS-I) Basic Profile v1.2</li> <li>• Basic, Digest, Integrated, and Certificate authentication methods</li> <li>• Transport Lay Security (TLS) encryption and authentication.</li> </ul> <p>A remote system normally invokes the LEMS Request Web Service to pass data to LEMS/JX in a predefined XML format. A LEMS Interface process receives the data from the Web Service and performs standard LEMS/JX processing on the message. Conversely, a LEMS Interface process invokes a Web Service exposed by a remote agency for LEMS to pass data to. In addition to this asynchronous send/receive method, LEMS supports a synchronous method of calling a remote Web Service so that query data is passed to a remote system, and the response data is returned to LEMS/JX as the response to the Web Service call.</p> <p>LEMS/JX Web Services can be used to expose LEMS/JX capabilities and services to directly connect agency systems and to access web service-enabled NSP and external systems, applications, and databases.</p> |                            |                |                    |               |
| MIT-12 | The solution should provide authentication of an electronic report/interface data source.  | X                          |                |                    |               |

| ID     | Specification  | Current Capability/ Config | Future Release | Custom Development | Not Available |
|--------|--|----------------------------|----------------|--------------------|---------------|
|        | <p>Bidder Response:</p> <p>LEMS/JX supports authentication of electronic report/interface data sources. Such authentication is generally accomplished using digital certificates, but message-level security standards (such as WS-Security) can also be used.</p>   |                            |                |                    |               |
| MIT-13 | <p>The solution shall have the ability to search multiple (e.g., spawned inquiry transactions) external systems and/or databases via a single query.</p>   | X                          |                |                    |               |
|        | <p>Bidder Response:</p> <p>LEMS/JX can be configured to spawn multiple types of messages in multiple formats from a single transaction. This is configured using the LEMS/JX Console Output Control screen. For each input transaction, the Output Control table can contain multiple entries that can each specify a different output message key, format, and destination device, and can be based on the content of the input message. For example, a driver license query can send the request to DMV for a Nebraska driver license or to Nlets for an out-of-state driver license, and to the NCIC Wanted Persons hot file.</p> |                            |                |                    |               |
| MIT-14 | <p>The solution should have the ability for authorized users to tailor spawned inquiries.</p>  | X                          |                |                    |               |
|        | <p>Bidder Response:</p> <p>The solution provides the ability for authorized users to tailor spawned inquiries. The primary method is accomplished using the LEMS/JX Console Output Control screen as described in the response to MIT-13. In addition, eAgent 2.0 screens can include “flag” fields, which allow end users to specify which interfaces the request should be sent to. Extending the example above, a user performing a driver license query could select flags to run a Nebraska sexual offender query, a Nebraska Protection Order query, an Nlets state warrant query, and/or an Nlets Interpol person query.</p>  |                            |                |                    |               |
| MIT-15 | <p>The solution shall have the ability to receive and respond to queries from authorized external systems and/or databases.</p>  | X                          |                |                    |               |
|        | <p>Bidder Response:</p> <p>LEMS/JX has the ability to receive and respond to queries from authorized external systems and/or databases. For example, LEMS/JX can receive driver and vehicle queries from users in other states via Nlets, route the query to Nebraska DMV, receive the response from DMV, and route the response back to the requesting user via Nlets, performing any necessary protocol and message format transformations.</p>  |                            |                |                    |               |
| MIT-16 | <p>The solution should interface with the Nebraska Sex Offender Registry (SOR) database.</p>   | X                          |                |                    |               |



| ID     | Specification   | Current Capability/ Config | Future Release | Custom Development | Not Available |
|--------|---|----------------------------|----------------|--------------------|---------------|
|        | Bidder Response:<br>LEMS/JX interfaces to the Nebraska SOR in accordance with the existing interface documentation provided by the NSP. |                            |                |                    |               |
| MIT-17 | The solution shall interface with the Mobile Architecture for Communications Handling (MACH) Automatic Vehicle Location (AVL) system.   | X                          |                |                    |               |
|        | Bidder Response:<br>LEMS/JX interfaces to the MACK AVL in accordance with the existing interface documentation provided by the NSP.     |                            |                |                    |               |

| ID            | Specification  | Current Capability/ Config | Future Release | Custom Development | Not Available |
|---------------|--|----------------------------|----------------|--------------------|---------------|
| <b>Images</b> |  |                            |                |                    |               |
| 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:<br>Users can copy or save images displayed on eAgent 2.0 GUI screens regardless of and independent of the response.   |                            |                |                    |               |
| MIT-19        | The solution shall process images as defined by NCIC.  | X                          |                |                    |               |
|               | Bidder Response:<br>The solution processes images as specified in the Inage File chapter of the NCIC NIEM XML Policy Manual, including handling all NCIC image transactions.   |                            |                |                    |               |
| MIT-20        | <del>The solution shall provide batch file processing from NCIC (e.g., \$.B).</del><br>The solution shall provide batch file processing from NCIC (e.g., \$.B), if supported by NCIC NIEM.                             | X                          |                |                    |               |

| ID     | Specification   | Current Capability/ Config | Future Release | Custom Development | Not Available |
|--------|---|----------------------------|----------------|--------------------|---------------|
|        | <p>Bidder Response:</p> <p>As of the date of this proposal, NCIC NIEM does not support batch file queries or notifications, as noted in NCIC TOU 22-3 and the NCIC NIEM XML Policy Manual (which replaced the NCIC Operating Manual for the NCIC NIEM XML interface as noted in NCIC TOU 22-5). Should NCIC NIEM support batch file processing in the future, LEMS/JX will be enhanced to provide the capability.</p> |                            |                |                    |               |
|        | The solution should access other documents or images stored in a specified repository.  | X                          |                |                    |               |
| MIT-21 | <p>Bidder Response:</p> <p>LEMS/JX provides the ability to access other documents or images stored in a specified repository.</p>   |                            |                |                    |               |
|        | The solution should retrieve, and route images stored in various sources.   | X                          |                |                    |               |
| MIT-22 | <p>Bidder Response:</p> <p>LEMS JX provides a capability to retrieve images stored in various sources and route them in message content as with any other message.</p>  |                            |                |                    |               |
|        | The solution should retrieve, and route other documents or images stored in a specified repository.   | X                          |                |                    |               |
| MIT-23 | <p>Bidder Response:</p> <p>LEMS JX provides a capability to retrieve images stored in a specified repository and route them in message content as with any other message.</p>   |                            |                |                    |               |

## 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 |
|-----------------------|---|----------------------------|----------------|--------------------|---------------|
| <b>System Support</b> |   |                            |                |                    |               |
| 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                          |                |                    |               |
|                       | <p>Bidder Response:</p> <p>The solution continually performs interface connectivity monitoring, hardware self-diagnosis, and self-checking and reports errors to the operator console for remedial action. This is accomplished in a number of ways, as follows:</p> <p>Interface connectivity monitoring is accomplished using the LEMS/JX Console. In addition, the solution can be configured to automatically notify system administrators if a critical interface goes down or a queue exceeds a specified threshold.</p> <p>Hardware self-diagnosis and self-checking is a native capability of the Azure Government Cloud. The infrastructure is monitored using the Azure Portal. In addition, the solution can be configured to automatically notify system administrators of a critical infrastructure failure, such as a VM failure.</p>   |                            |                |                    |               |
| 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                          |                |                    |               |
|                       | <p>Bidder Response:</p> <p>The Unisys Team solution provides for software upgrades/maintenance that do not affect the production system (no downtime) in a load-balanced environment. There are two aspects of this capability in our solution: IaaS/PaaS upgrades/maintenance and application upgrades/maintenance.</p> <p>For software upgrades/maintenance of components that are part of the Azure Government Cloud IaaS and PaaS, the upgrades/maintenance are performed by Microsoft in a manner that is transparent to the users because of configured load balancing and other redundant components. This includes operating systems, Azure SQL Database, and Azure Active Directory.</p> <p>For the applications themselves, software upgrades/maintenance are performed on load balanced or otherwise redundant components one at a time, so there are always one or more remaining instances that are running.</p> |                            |                |                    |               |

| ID    | Specification   | Current Capability/ Config | Future Release | Custom Development | Not Available |
|-------|---|----------------------------|----------------|--------------------|---------------|
| 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                          |                |                    |               |
|       | <p>Bidder Response:</p> <p>The proposed solution provides logging at various levels including Azure VM server logs, Azure services logs, database logs, and application audit logs.</p> <p>Azure logs record changes to the solution infrastructure.</p> <p>The LEMS/JX Console includes an audit log, which logs all entries, changes, and deletions made using the LEMS/JX Console, when the change was made, and the user ID of the administrator who made the change.</p> <p>Azure SQL Database logs record all database changes in a transaction log for backup and recovery.</p>  |                            |                |                    |               |
| MMA-4 | The solution shall be designed to allow for remote maintenance and troubleshooting.   | X                          |                |                    |               |
|       | <p>Bidder Response:</p> <p>Because the solution is deployed to Azure Government Cloud, all maintenance and troubleshooting is remote. Remote maintenance and troubleshooting are accomplished in several ways:</p> <p>The Azure Portal is used for remote maintenance and troubleshooting of the Azure infrastructure.</p> <p>Remote Desktop Protocol (RDP) and Secure Shell (SSH) access to virtual machines (VMs) are used for remote maintenance and troubleshooting of programs running on the VM using tools loaded on the VM.</p> <p>The LEMS/JX Console browser-based administrative user interface is used for remote maintenance and troubleshooting of the LEMS/JX application.</p> <p>All remote access described above is secured using Azure AD with advanced authentication and authorizations limited to the persons and resources involved in the remote maintenance and troubleshooting.</p> |                            |                |                    |               |
| 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                          |                |                    |               |
|       | <p>Bidder Response:</p> <p>All Azure virtual machines operating systems are automatically synchronized to time servers to use the Coordinated Universal Time (UTC) time zone. For the MSS applications, the local time and date is calculated using a time zoned configurable offset from UTC.</p>  |                            |                |                    |               |

| ID    | Specification   | Current Capability/ Config | Future Release | Custom Development | Not Available |
|-------|---|----------------------------|----------------|--------------------|---------------|
| MMA-6 | The bidder should provide ongoing services and support, including, but not limited to toll-free 24/7 customer service, annual training classes, an online customer service website, and online software maintenance.  | X                          |                |                    |               |
|       | <p>Bidder Response:</p> <p>The Unisys Team proposed solution provides ongoing services and support, including the following:</p> <ul style="list-style-type: none"> <li>• Toll-free 24x7 customer service</li> <li>• Annual training classes</li> <li>• An online customer service Web site</li> <li>• Online software maintenance.</li> </ul> <p>The details on our ongoing services and support are provided in our Appendix D response and associated deliverables.</p>  |                            |                |                    |               |
| 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                          |                |                    |               |
|       | <p>Bidder Response:</p> <p>The Unisys proposed solution provides support for configuration control for configurable elements, including auditing, rollback, roll-forward, and configuration change transactions with the ability to import and export configurations. The LEMS/JX Console, SQL Server Management Studio, and other tools provide these capabilities.</p>  |                            |                |                    |               |
| MMA-8 | The solution shall accommodate changes to production applications without impact to operations.   | X                          |                |                    |               |
|       | <p>Bidder Response:</p> <p>Changes to application configurations are made using the LEMS/JX Console. The configuration changes take effect immediately, without restarting the MSS or otherwise impacting operations.</p> <p>The solution includes load balanced and clustered application servers and web servers, which allow changes to production application software without impact to operations. The application is updated on one node while the other node handles all services traffic; then, the application is updated on other node while the previously updated node handles all services traffic. In this way, there is no noticeable impact to operations.</p> |                            |                |                    |               |
| MMA-9 | The solution shall provide the ability to designate control terminals.  | X                          |                |                    |               |

| ID     | Specification  | Current Capability/ Config | Future Release | Custom Development | Not Available |
|--------|--|----------------------------|----------------|--------------------|---------------|
|        | <p>Bidder Response:</p> <p>Any eAgent 2.0 user inbox or team inbox can be designated as a control terminal. In addition, the LEMS/JX Console provides additional control capabilities.</p>   |                            |                |                    |               |
| MMA-10 | The solution shall be able to account for multiple time zones. The state of Nebraska contains two time zones.  | X                          |                |                    |               |
|        | <p>Bidder Response:</p> <p>The solution uses configurable offsets from the Coordinated Universal Time (UTC) time zone to account for multiple time zones.</p>  |                            |                |                    |               |
| 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                          |                |                    |               |
|        | <p>Bidder Response:</p> <p>Our solution embodies evergreen IT because of its use of the Microsoft Azure Government Cloud for all infrastructure as a service (IaaS) and platform as a service (PaaS). Microsoft is continually adding new Azure resources and services, and improving existing ones. Unisys will be able to easily and readily provide continuous management of all IT components, emphasizing regular, iterative updates and upgrades, ensuring that software and hardware are always up to date, without the need to procure new hardware or software.</p> |                            |                |                    |               |
| 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                          |                |                    |               |
|        | <p>Bidder Response:</p> <p>The proposed Unisys Team solution uses standard NCIC codes lists. These code lists are updated from time to time by FBI CJIS and are configurable within the solution using the LEMS/JX Console Lookup Table screens. LEMS/JX Admin Web Services provides the capability for other systems to download and use.</p>   |                            |                |                    |               |

| ID               | Specification | Current Capability/ Config | Future Release | Custom Development | Not Available |
|------------------|---------------|----------------------------|----------------|--------------------|---------------|
| <b>Standards</b> |               |                            |                |                    |               |

| ID     | Specification   | Current Capability/ Config | Future Release | Custom Development | Not Available |
|--------|---|----------------------------|----------------|--------------------|---------------|
| MMA-13 | <p>The solution shall be compliant with all national standards and policies outlined in Attachment B – MSS Operations Plan Specifications, Standards, and Guides</p> <ol style="list-style-type: none"> <li>1. FBI NCIC 2000.</li> <li>2. FBI CJIS Security Policy (V5.9), or latest.</li> <li>3. NIEM.</li> </ol>  | X                          |                |                    |               |
|        | <p>Bidder Response:</p> <p>The solution is compliant with all national standards and policies outlined in Attachment B – MSS Operations Plan Specifications, Standards, and Guides, as follows:</p> <ul style="list-style-type: none"> <li>• FBI NCIC as specified in the NCIC NIEM XML Policy Manual, version dated September 30, 2022)</li> <li>• FBI CJIS Security Policy, as specified in CJISSEPOL version 5.9.2</li> <li>• NIEM, multiple versions, depending on the version specified in the Information Exchange Package Documentation (IEPD).</li> </ul> |                            |                |                    |               |
| MMA-14 | <p>The solution shall be compliant with the Transportation Security Layer (TLS) 1.2 protocol at the minimum.</p>  | X                          |                |                    |               |
|        | <p>Bidder Response:</p> <p>The solution uses the TLS 1.2 protocol for all web services and web browser communications and will support TLS 1.3 as it becomes available.</p>   |                            |                |                    |               |
| MMA-15 | <p>The solution shall meet response time, delivery, and transmittal requirements for NCIC.</p>  | X                          |                |                    |               |
|        | <p>Bidder Response:</p> <p>The proposed Unisys Team solution meets the delivery and transmittal requirements for NCIC as currently specified by FBI CJIS in the NCIC NIEM XML Policy Manual.</p>  |                            |                |                    |               |
| MMA-16 | <p>The solution shall use standard NCIC codes and descriptors.</p>  | X                          |                |                    |               |
|        | <p>Bidder Response:</p> <p>The proposed Unisys Team solution uses standard NCIC codes and descriptors. These standard NCIC codes and descriptors are updated from time to time by FBI CJIS and are configurable within the solution using the LEMS/JX Console Lookup Table screens.</p>   |                            |                |                    |               |

| ID  | Specification   | Current Capability/<br>Config | Future Release | Custom Development | Not Available |
|---|---|-------------------------------|----------------|--------------------|---------------|
| <b>Training, Documentation, and Testing</b> |   |                               |                |                    |               |
| 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                             |                |                    |               |
|   | Bidder Response:<br>The proposed system provides access to online system help files that describe fields, forms, and data requirements, as well as procedures from system documentation.  |                               |                |                    |               |
| 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                             |                |                    |               |
|   | Bidder Response:<br>The proposed eAgent 2.0 MSS GUI provides quick and easy user access to the online NCIC manual, files, which are stored on the eAgent 2.0 GUI web server. These files describe fields, forms, and data requirements, as well as procedures and automatic updates. They are augmented by eAgent 2.0 help screens.   |                               |                |                    |               |
| 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:<br>The proposed eAgent 2.0 MSS GUI provides quick and easy user access to the online Nlets manual files, which are stored on the eAgent 2.0 GUI web server. These files describe fields, forms, and data requirements, as well as procedures and automatic updates. They are augmented by eAgent 2.0 help screens.   |                               |                |                    |               |
| 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:<br>The proposed eAgent 2.0 MSS GUI provides quick and easy user access to the online NSP MSS manual files, which are stored on the eAgent 2.0 GUI web server. These files describe fields, forms, and data requirements, as well as procedures and automatic updates of the manual by designated NSP personnel. They are augmented by eAgent 2.0 help screens. |                               |                |                    |               |



| ID     | Specification  | Current Capability/<br>Config | Future Release | Custom Development | Not Available |
|--------|--|-------------------------------|----------------|--------------------|---------------|
| MMA-21 | The solution should provide the ability to query the MSS manual and to allow automated updates by NSP administration.  | X                             |                |                    |               |
|        | <p>Bidder Response:</p> <p>The proposed eAgent 2.0 MSS GUI provides the ability to query the NPS MSS manual and to allow automated updates by designated NPS personnel. It allows users to use standard browser search features to search query documents that it can display. System administrators can update the NPS MSS manual on the Web server as necessary.</p> |                               |                |                    |               |
| MMA-22 | The solution should provide a detailed user-training program and include a syllabus of each class and sample training manual.  | X                             |                |                    |               |
|        | <p>Bidder Response:</p> <p>The Unisys Team solution includes a detailed user training program, a syllabus for each class, and a sample training manual. This is outlined in our response to the Implementation Statement of Work and will be detailed in the deliverable Training Plan and Training Materials.</p>   |                               |                |                    |               |