## 5.2.1 Capture of Vista Client Traffic

The Contractor shall coordinate the use of built-in VAEC facilities to non-invasively log the VistA client traffic (RPC traffic) of VAEC-hosted VistAs for a representative period. As a non-invasive method, it will not require any change, reconfiguration, interfaces, development, patches, or plugins in the VistA system itself or any client communicating with that VistA.

The Contractor shall coordinate the logging of all client traffic of three VAEC-based production VA VistAs (“Analyzed VistAs”). At least one of the VistAs should support a large integrated medical facility.

NP: Not Present

NR: Non Responsive (Restates the requirement as a “we will” statement)

Yes: Addressed requirement (page #)

U: Understanding

F: Feasibility

Summary: Offeror provided a technical and management approach for non-invasive capture of RPC traffic from three VAEC-based VistA systems. They described how they would coordinate the configuration of RPC traffic capture. The remainder of the Offeror’s proposal was nonresponsive to the PWS requirements, and were all restatements of the requirements.

4 Requirements:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| PWS | Type | Description | Response 1 | Booze | Response 3 |
| Page 7  5.2.1.a | ADMIN | In collaboration with the Government, identity three VistAs and obtain permission from their managers to capture their RPC traffic. | U: Y  F: Y | U: Y  F: Y | U: Y  F: Y |
| Page 7  5.2.1.b | CAPTURE | Coordinate the configuration of the RPC Traffic capture to log all RPC traffic for these three VistAs. | U: Y  F: Y | U: Y  F: Y | U: Y  F: Y |
| Page 7  5.2.1.c | CAPTURE | Monitor and ensure traffic logging of each of the three identified VistAs for at least one month and the storage of all captured data in VAEC for analysis. | U: Y  F: Y | U: Y  F: Y | U: Y  F: Y |
| Page 7  5.2.1.d | DOC | Develop and provide a VistA Traffic Logging Standard Operating Procedure to document the processes and procedures used to log required traffic from any VistA, including permissions required from VistA owners and VAEC maintainers. | U: Y  F: Y | U: Y  F: Y | U: Y  F: Y |

Give it to all of them; we cannot QA AWS technologies. If they list technologies, we presume those technologies work. They all shown adequate VAEC and management capability.

All three made adequate responses for traffic capture.

At end of each section summarize.

The client use report (5.2.4) is prepated based soley on the results of the Vista client usage on the

If not adequately complete 5.2.3, it is impossible to complete

The 5.2.4, which is based soley the Analysis of key Vista Clients (5.2.3).

## 5.2.2 Analysis of Vista Client Traffic

Using the client traffic captured (deliverable 5.2.1A) , the Contractor shall provide Traffic Analysis Reports comprising the complete client traffic for each of the three analyzed VistAs. In addition, the Contractor shall provide a Cross VistA Analysis Report distinguishing cross-VistA from VistA-specific traffic patterns.

**Per-Vista analysis** for all RPC traffic; not client-specific

Understanding:

These metrics require capturing specific RPCs and interpreting them. They must understand there are specific RPCs associated with user volumes, patient volumes, patient authentication. Offeror must recognize that they need to identify and analyze these RPCs and RPC groups.

Feasibility:

Offeror must explain HOW they will identify and analyze the specific RPCs and RPC groups necessary to do this analysis

Exclusion criteria:

Do you identify correct RPCs?

How are you going to do the RPC groupings? LCS

8 Requirements

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| PWS | Type | Description | C | B | A |
| 5.2.2.a | METRIC | User Volume | RPC ID | NR | Page 12-13  NR |
| 5.2.2.b | METRIC | Client types and volume of use | RPC ID | NR | NR |
| 5.2.2.c | METRIC | Connection volumes, frequency, and duration | counting traffic | NR | NR |
| 5.2.2.d | CATAG | Types of user authentication/security and relative use | RPC ID | NR | NR |
| 5.2.2.e | CATAG | Machine from end Users | Specific RPC | NR | NR |
| 5.2.2.f | METRIC | RPC usage frequency and execution times | How to parse RPCs | NR | NR |
| 5.2.2.g | CATAG | RPC groupings representing transactions | RPC sequences  (LCS) | NR | NR |
| 5.2.2.h | CATAG | RPCs specific to a VistA from cross-VistA RPCs | Traffic diff | NR | NR |

## 5.2.3 Analysis of use of key Vista clients

Based on the traffic and client types isolated during the VistA traffic analysis, the Contractor shall produce a detailed Client Traffic Analysis of the operation of three of the most used VistA point-of-care applications ("Clients"). CPRS shall be one of the three; the remaining two shall be chosen after project start based on client usage. All three reports shall be composed in GitHub compatible markdown with embedded graphics where appropriate. The Contractor shall store the three reports in a git in the VA Enterprise GitHub. All client analyses must be validated and verifiable in a demonstrable way, matching RPC flows to specific client screens and typical tasks. The Contractor shall document the verification and validation of the analysis and provide a Client Traffic Analysis Validation and Verification Report.

**Per-client analysis.** Assumes know what the clients are (identified in 5.2.2b);

For three clients, primarily CPRS. Simple metrics parallel the VistA-wide metrics of 5.2.2, validating per client traffic. Categorization (CATAG) is new and provides key input for workflow analysis. The main work is detailed, per-client workflow analysis.

NP: Not Present

NR: Non Responsive (Echo’d requirement)

Yes: Addressed PWS (page #)

13 Requirements

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| PWS | Type | Description | Response 1 | Booze | Response 3 |
| 5.2.3.a | Same as 5.2.2.a  script | User volumes and types. User types shall capture clinical care specialties and roles. |  | Page 9  NR | Page 14-15  NR |
| 5.2.3.b | Same as 5.2.2.c  script | Connection volume and duration, tying frequency of client use to user types |  | NR | NR |
| 5.2.3.c | Same as 5.2.2.d  script | Types of user authentication/security and relative use |  | NR | NR |
| 5.2.3.d | METRIC | Patient volumes |  | NR | NR |
| 5.2.3.e | CATAG | Enumeration of all RPCs used by a client and their relative use | Dead dog can do. Once have connection, just enumerate each RPC type. Like counting connections | NR | NR |
| 5.2.3.f | CATAG | Distinction of clinical from non-clinical RPCs | Old stuff from VDP. Key RPCs that anchor dialogs. Only the write RPCs anchor workflow | NR | NR |
| 5.2.3.g | CATAG | Distinction of RPCs that change (write) from those that read the clinical record | Old stuff from VDP. Key RPCs that anchor dialogs | NR | NR |
| 5.2.3.h | METRIC | Distinction of slow running, high overhead and variable overhead RPCs | Global RPC level; don’t care what it does; standard traffic overhead timings. Key for workflow | NR | NR |
| 5.2.3.i | WORKFLOW | Clinical care task sets, represented as groups of RPCs used in tandem |  | NR | NR |
| 5.2.3.j | WORKFLOW | Match task sets with the use of one or more specific client screens | J before I. | NR | NR |
| 5.2.3.k | WORKFLOW | Task sets employed by different user types |  | NR | NR |
| 5.2.3.l | WORKFLOW | Isolate performance issues with patterns of use that slow care |  | NR | NR |
| 5.2.3.m | WORKFLOW | Verification and validation that the analysis accurately captures care provision |  | NR | NR |

J is climbing the tower. J before I.

1. Identify where getting screens (manuals)
2. Match screens to RPC groupings

## 5.2.4 Vista Client Use Improvement Report

“Based soley on the Client Use Analysis Reports [5.2.3], the Contractor shall provide recommendations to upgrade the use of the top three RPC-using Point-of-Care VistA Clients to deliver better clinical care.”

1 Requirement

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| PWS | Description | Response 1 | Response 2 | Response 3 |
| 5.2.4 | Based solely on the Client Use Analysis Reports, the Contractor shall provide recommendations to upgrade the use of the top three RPC-using Point-of-Care VistA Clients to deliver better clinical care | Y | Page 10  NR  Must be based solely on 5.2.3, which is NR | Page 16-18  NR  Must be based solely on 5.2.3, which is also NR |