

MEMORANDUM FOR RECORD

Date: October 23, 2017

From: Enterprise Program Management Office (EPMO), VistA Adaptive Maintenance Contract Office

SUBJECT: Technical Within-Scope Determination, contract number VA118-16-D-1009 task order VA11817F10090012, VistA Adaptive Maintenance (VAM)

PURPOSE: The Office of Information and Technology, EPMO requires a modification to the VAM task order as follows:

1. The purpose of this modification is to revise the Performance Work Statement to the subject line task order to:
 - a) Remove the requirement for PWS Section 5.3 performance in the Base period and change it to be performed solely in the Option Period,
 - b) Add Section 5.7 to the PWS for the inclusion of Web Client Development, PDE Web Client Development and Pharmacy CPOE Web Client Development for the base period and option period.
2. The Department of Veterans Affairs (VA)/Department of Defense Interagency Program Office require a technical within-scope modification to Transformation Twenty-One Total Technology Next Generation (T4NG) Task Order VA118-16-D-1009 VA11817f10090012 titled, "VistA Adaptive Maintenance (VAM)" to include the requirements of Web Client Development, PDE Web Client Development and Pharmacy CPOE Web Client Development. The Web Client Development will serve to develop the client side of the Veteran Integrated Care Services (VICS) to demonstrate that the server side MUMPS emulation is working correctly. This development will provide access between the Server Side and Client side of the systems. This will demonstrate a "full stack" solution from client through server.
3. As a result of this within scope modification, the task order will increase by approximately \$405,803.05, which is the Government estimate for this change. This will increase the total task order value from: \$8,701,895.55 to \$9,107,698.60. The Government anticipates this within scope requirement to be continued under The Base Period and Option Period with a period of performance ending September 17, 2019.

4. The original intent of the tasks performed under 5.3 were for Sustainment Support for the Patient Data Entry And Pharmacy Computerized Physician Order Entry (CPOE) Functions for both the base period and option period. This modification will do the following:
 - a. Remove the requirement for performance of PWS Section 5.3 Sustainment Support for the Base Period as there no artifacts which require sustainment during this period. Specifically, there is no MUMPS emulation code to sustain, as this does not yet exist. This MUMPS emulation will be created during the Base Period. Therefore, sustainment is required only in the Option Period. This modification does not change the original intent of the work being performed under this task, but rather aligns the components of the work within the correct timeframes for which they are applicable.
 - b. Add Section 5.7 to the PWS for the inclusion of Web Client Development, PDE Web Client Development and Pharmacy CPOE Web Client Development for both the base period and option period. The VA has undertaken a variety of projects to “wrap” legacy MUMPS code rather than emulating it in Javascript/Node.js as is to be performed by this project. The prior approaches have locked its solution into the legacy MUMPS technology stack. As the VistA Adaptive Maintenance project’s approach to MUMPS emulation (versus wrapping) has never before been undertaken at VA, Dr. Richards proposed using the unused funds for sustainment in the base period to add a new task that would provide client-side visibility to the back-end MUMPS emulation. During the Base Period, this would be performed for the Patient Data Entry (PDE) domains of Allergy, Vitals, Problems, in parallel with development of the server side MUMPS emulation of the same domains. In the Option Period, the Web Client Development will continue in parallel with Pharmacy CPOE MUMPS emulation, which adds additional complexity to the presentation of data on the client side. The addition of this task will help to ensure that application functionality is clearly understood by VA management to demonstrate “forward compatibility” to a commercial EHR (EHRM) can be correctly specified as a centralized service without dependency on any legacy MUMPS code or systems, allowing VA to retire the legacy MUMPS systems. The addition of this PWS 5.7 task reflects a change in total value of the Option Period and to the total task order value of \$405,803.05.

The referenced changes are within scope of the PWS, with the additional task being within scope of previously identified T4NG within scope services for 4.2.9 System/Software Integration.

5. Impact if Not Approved: If the task order is not modified, the VA will be paying for unnecessary services - for sustainment of nonexistent code and artifacts - by continuation of PWS 5.3 in the base period. In addition, without the addition of PWS 5.7 in the base period and continuity of 5.7 in the option period, this project will not have an opportunity to demonstrate the forward compatibility of the project's MUMPS emulation approach for EHRM interfacing, which is essential to inform the technical decisions on how VistA to COTS EHR migration is reliant.

Without visibility – via a web client – to the new capabilities for interfacing to VistA without legacy MUMPS code and dependencies as proven by the addition of PWS 5.7, VA leadership may make decisions for interfacing and migration based on legacy MUMPS technologies that are not forwards compatible to EHRM, and which will prevent VA from deprecating and migrating off of the dependency on the legacy MUMPS VistA technology and systems.

Dr. Rafael Richards
VAM Project Director