Contract Status Reporting (JITC) (Form) **/ Contract : Veteran's Affairs Veterans Health Information Systems and Technology Metadata Modernization (VA Vista Metadata)** (Item) **/ Today** (Data as of: Mar 30, 2016)

Primavera
Portfolio
Management

Form Report, printed by: Darryl Higa, **Mar 30, 2016**

CONTRACT STATUS REPORT (JITC)

1	Contract Name

Contract : Veteran's Affairs Veterans Health Information Systems and Technology Metadata Modernization (VA Vista Metadata)

prototype and demonstrate the exposure, analytics, and automation of all VA VISTA metadata using modern, machine-processable, web-centric metadata standards, providing a single, comprehensive security-enabled read/write data model spanning all VA VISTA data in all VA VISTA operational systems, establishing a common technical foundation for computable data exchange between VA and DoD clinical information systems.

2	Contract Details
	Enter Contract #
Contract #:	HT0011-16-C-0007
	Enter Current Period of Performance Start Date
Contract PoP Start:	Dec 31, 2015
	Enter Current Period of Performance End Date
Contract PoP End:	Dec 30, 2016

3	KO Details
	Please enter the KO details.
Name:	Robert LeBlanc
E-mail:	robert.e.leblanc6.civ@mail.mil
Phone:	703-681-1790

4	COTR Details
	Please enter the COTR details.
Name:	Alan Furuno
E-mail:	alan.furuno@pacifichui.org
Phone:	808-433-3602

5	Contract Type

Select Contract Type from the list below.

Firm Fixed Price (FFP)

6	Report Start Date

Enter the start date for the reporting period.

Feb 29, 2016

7	Report End Date

Enter the end date for the reporting period.

Mar 30, 2016

8	Vendor Project Team

#	Name	Role	Cell Phone	Desk Phone	Email	Location (State/Country)
1	Renton Nip	Program Manager	808-927-0999		rnip@hawaiirg.com	HI, USA
2	Darryl Higa	Project Manager	509-860-1177		dhiga@hawaiirg.com	HI, USA
3	Heather Tipon	Techinical Writer	808-234-4885		htipon@hawaiirg.com	HI, USA
4	Conor Dowling	FIleMan and RDF SME	310-980-7954		conor-dowling@caregraf.com	CA, USA
5	David Booth	RDF and HL7 SME			david@dbooth.org	MA, USA
6	Sean Ishii	Domain Administrator	209-732-6440		sishii@hawaiirg.com	HI, USA
7	Pei Chia Chang	Application Developer	808-220-9701		pchang@hawaiirg.com	HI, USA
8	James Leigh	Application Developer (Master)			james@roundstones.com	Canada
9	Ed de Moel	CHCS, InterSystems, and Cache SME	781-646-0904		edemoel@j2interactive.com	MA, USA
10	Eric Prud'hommeaux	Application Developer				France
11	Steve Bruno	Application Developer	808-381-7520		sbruno@hawaiirg.com	HI, USA
12	Sonny Kim	Application Developer			skim@hawaiirg.com	HI, USA

9	Health Self Assessment

Schedule:	★
Cost:	★
Performance:	★
Risk:	★
Issue:	★

10	Guide for Self-Assessment

Schedule Variance - Schedule variance is any difference between the scheduled completion of the work planned through the reporting date and the actual completion of the work. If the variance is less than 5% select Green. If the variance is between 5% and 10% select Yellow. If the variance is greater than 10% select Red.

Cost Variance - Cost Variance is the difference between an actual cost and the associated budgeted or estimated cost for a work performed through the date of reporting. If the variance is less than 5% select Green. If the variance is between 5% and 10% select Yellow. If the variance is greater than 10% select Red.

Performance - Performance Criteria measure if the project is delivering the desired outcomes based on the scope and the quality of the work being delivered. Select Green if your project is on track for delivering all the scoped deliverables at the

desired level of quality. Select Yellow if your project has minor issues with either delivering the entire scope and/or if there are minor issues with the work product that you are working on actively to resolve with the vendor. Select Red if your project has major issues with either delivering the entire scope and/or if there are major issues with the work product.

Risk is anything that will have a negative impact on any one or all of the primary project constraints - Time, Resources and Performance Criteria. Early identification of risk and implementing a mitigation plan could lower the probability of the risk occurring and minimize the impact of the risk. The Risk indicator is auto populated based on the information in the Risks Table.

11	Key Tasks Supported During this Reporting Period

Please list the key tasks and deliverables supported during the reporting period. Kindly spell out all acronyms the first time. Please breakout the accomplishments by Tasks in the Contract and include the percent completed for each of the major tasks. For example,

-- Program Management --

(1) enter text

(2) enter text

-- Task 1 (%complete) --

(1) enter text

(2) enter text

-- Task 2 (%complete) --

(1) enter text

(2) enter text

Program Schedule
See VistAMetadata_WBSv4.0 (PDF) on GitHub

Monthly Update

Summary: Work continuing on the First Prototype Set. Focused on AINA, the first VA version of VISTA made available to the project. The First Prototype Set will cover both read and write of both VDM and MVDM with a clear contrast between such a model-driven approach and using RPCs. It will form the basis of the Project's Preliminary Research Report scheduled for April 29th.

VDM: (25% complete)

·   Installed and ran AINA, the first VA-supplied VISTA
·   Began Analytics on Populated VISTAs - using AINA
        o   focus is on the Allergy Prototype with the interplay of Documents/Assessments/Allergies
        o   same approach will be applied to full prod clones once they are made available
·   Began comparison of contents of OSEHRA VISTA and this VA Image
        o   examined triggers and other eHMP specials in this image, as part of goal of eventually installing all eHMP additions into nodeVISTA
        o   continue work on (Med) Orders
·   VDM side of Allergies to provide data-driven alternative to RPCs used by CPRS. Included data-driven input validation.
·   Extensive analysis of RPCs used in CPRS including code parsing for more VDM meta data
·   Analysis of the RPCs and code of r1.3 eHMP - parse 1, issue with results
·   Continued work on orders (medications)
·   Added support for word processing field storage to VDM utilities - the code maintains VDM's simple approach to data create and update and handles FileMan's undocumented, "hacky" approach to Word Processing storage
·   Added coverage for document/tiu note creation and updating
·   Analyzed visit creation logic, focusing on visits required for document storage - visits are created in queues
·   Finished "object creation analysis" for Allergies, exposing the range of visits, documents and secondary allergy objects involved - tracked in an ongoing allergies issue,
·   Finished allergy edge condition tests including NKA (No Known Allergy) and EIE (Entered in Error).
·   Started document/tiu node prototyping

nodeVistA (E3): (25% complete)
·   Finished evaluation of EWD queue service - a MUMPS database based alternative to Kue - Conclusion: EWD is better
·   Began port and test of EWD (VA official) Node.js job queue module. Comparing to Kue.
·   Moved nodeVISTA REST to https from http
·   Queue/job stress tests
·   PM2 based server monitoring and management
·   Continued work on a scalable, reliable node.js VISTA service - exposed a leak in the older version of Node.js used by OSEHRA

Web Site (#13): (25% complete)

- Began write up on RPCs being unreliable, a key chapter of the "Preliminary Technical Report" due in April
- Continued work on blog on RPCs being unreliable as a service i/f - based on RPC tests in prototypes
- Posted documentation for TIU Documents

Program Management: (25% complete)
- Liaised with Dr. Richards about overview of project and eHMP VISTA VMs
- Liaised with PJITC about gaining access through PJITC hosted VMs into the VA's test lab which hosts prod clones
- Continued to liaise with Dr. Richards about overview of project including Mitre's upcoming report; the source of VA's test system's Kodak and Panorama
- A PJITC organized call with the VA on gaining access to their official test systems

12	Deliverables and Milestones

List all the non-recurring deliverables from your PBSOW in this table. Deliverables that are updated "as needed" can be added as you go for that reporting month. For the milestones, at a minimum, please add the planned/started/completed milestones for the reporting month. Do not delete completed deliverables or milestones.

#	Type	Description	Due Date	Status		Comments
1	Deliverable	[Deliverable #1B] Quality Control Plan	Jan 30, 2016	Complete	★	
2	Deliverable	[Deliverable #1AA] Artifact resository	Jan 08, 2016	Complete	★	
3	Deliverable	[Deliverable #1C] Phase-Out Migration Plan			★	
4	Deliverable	[Deliverable #2] Program Management Plan	Jan 08, 2016	Complete	★	
5	Deliverable	[Deliverable #3] Program Schedule and Monthly Updates	Mar 10, 2016	In Progress	●	
6	Deliverable	[Deliverable #4] Monthly Status Report	Mar 10, 2016	In Progress	●	
7	Deliverable	[Deliverable #5] Quarterly Strategic Communications Message	Apr 05, 2016	Not Started	◆	
8		DELETED [Deliverable #6] Software Architecture Artifacts (VISTA Metadata)			★	DELETED - substantively included in Deliverables 8 and 11
9	Deliverable	[Deliverable #7] Machine Processable VISTA Data Model (VDM)	Dec 30, 2016	In Progress	★	7.1 Read Only Started Q1; 7.2 starts Q2
10	Deliverable	[Deliverable #8] Date-stamped FileMan Data Model Definitions	Jun 30, 2016	In Progress	★	
11	Deliverable	[Deliverable #9] Approach to "Live VDM" Maintenance of Current State	Dec 30, 2016	Not Started	★	
12	Deliverable	[Deliverable #10] Normalized VISTA Data Model (VDMN)	Dec 30, 2016	In Progress	★	10.1 Read Only started Q1; 10.2 starts Q2
13	Deliverable	[Deliverable #11] Heuristic Code	Dec 30, 2016	Not Started	★	
14	Deliverable	[Deliverable #12] Normalization Reports	Dec 30, 2016	Not Started	★	
15	Deliverable	[Deliverable #13] Website that graphically depicts VDM, VDMN, and other metadata	Dec 30, 2016	In Progress	★	
16	Deliverable	[Deliverable #14] Report on Exposure of Older Models	Dec 30, 2016	Not Started	★	
17	Deliverable	[Deliverable #15] Date-stamped Metadata for lab, surgery, TIU notes and other applkications in VDMN compatible format	Jun 30, 2016	Not Started	★	
18		DELETED [Deliverable #16] Metadata Refinement Prototype with associated documentation			★	DELETED - OUT OF SCOPE

19		DELETED [Deliverable #17] White Paper on Interoperability Improvement due to Metadata Curation			★	DELETED - OUT OF SCOPE
20	Deliverable	[Deliverable #18] Machine-processable Annotations	Jun 30, 2016	Not Started	★	
21	Deliverable	[Deliverable #19] Software Code	Jun 30, 2016	Not Started	★	
22		DELETED [Deliverable #20] Queries & Indexing White Paper			★	DELETED - OUT OF SCOPE
23		DELETED [Deliverable #21] Operational Data Prototype			★	DELETED - OUT OF SCOPE
24		DELETED [Deliverable #22] End-to-end Demonstration of VDM and normalized VDMN			★	
25		DELETED [Deliverable #24] Prototype of Meta-data Driven Export/import of VISTA Data			★	DELETED - substantively included in Deliverables 11 and 35
26	Deliverable	[Deliverable #25] Prototype query access to VISTA Data Against VDM	Jun 30, 2016	Not Started	★	
27		DELETED [Deliverable #26] Prototype Standardized Metadata Version Control			★	DELETED - OUT OF SCOPE
28		DELETED [Deliverable #27] Prototype Standard Metadata Import-export Format			★	DELETED - OUT OF SCOPE
29	Deliverable	[Deliverable #28] Prototype Patient-centric Data Security	Dec 30, 2016	Not Started	★	
30		DELETED [Deliverable #30] Prototype Continuous Sync Support to NoSQL Store			★	DELETED - OUT OF SCOPE
31		DELETED [Deliverable #31] Validate Read/write access for VISTA Application against VDMN			★	DELETED - substantively included in Deliverables 11 and 35
32	Deliverable	[Deliverable #32] Prototype Web-Based Rules Hub	Sep 30, 2016	Not Started	★	
33	Deliverable	[Deliverable #33] Prototype Web-Based Query Interface to FileMan Data	Sep 30, 2016	Not Started	★	
34		DELETED [Deliverable #34] Prototype Web-Based Dashboard for FileMan Status			★	DELETED - OUT OF SCOPE
35	Deliverable	[Deliverable #35] VISTA Application model(s)/Prototype(s)	Dec 30, 2016	Not Started	★	NOTE: Includes requirements defined in Deliverables 23,24 and 31
36	Deliverable	[Deliverable #36] Meta-model(s)/Prototype(s)	Sep 30, 2016	Not Started	★	NOTE: DELETE MDWS Prototype requirement only
37		DELETED [Deliverable #37] Document VISTA-ese vs. MDWS			★	DELETED - OUT OF SCOPE
38		DELETED [Deliverable #38] Document VISTA-ese vs. VPR			★	documentation (Deliverable 12)
39	Deliverable	[Deliverable #39] Reference model(s)/Prototype(s)	Dec 30, 2016	Not Started	★	
40	Deliverable	[Deliverable #40] Document VISTA-ese vs. FHIR	Dec 30, 2016	Not Started	★	

Use the table below to upload any documents relevant to this contract. At a minimum, the Contract, the Quality Assurance Surveillance Plan (QASP) and any completed deliverable documents listed in the PWS must be uploaded here. Additional documents uploaded are at the discretion of the COTR.

Name	Link	Size	Owner	Uploaded
Deliverable_VistA Metadata Quality Control Plan FINAL 20160129 corrected.doc	https://prosight.dhh...docId=3900	1,463 KB	Darryl Higa	Feb 01, 2016 8:45 PM

	Description: Deliverable - Quality Control Plan			
MSR February 2016 VistA Metadata.docx	https://prosight.dhh...docId=3950	49 KB	Darryl Higa	Mar 09, 2016 5:44 PM
	Description: MSR #2			
MSR January 2016 VistA Metadata.xml	https://prosight.dhh...docId=3937	801 KB	Darryl Higa	Mar 01, 2016 5:07 PM
VistA Metadata Contract Deliverable3Jan2016.docx	https://prosight.dhh...docId=3936	19 KB	Darryl Higa	Mar 01, 2016 5:05 PM
VistA Metadata Contract Deliverable3Jan2016.pdf	https://prosight.dhh...docId=3899	463 KB	Darryl Higa	Feb 01, 2016 8:38 PM
	Description: Deliverable - Monthly Update #1			
VistA Metadata Contract Deliverable3JFeb2016.docx	https://prosight.dhh...docId=3939	24 KB	Darryl Higa	Mar 01, 2016 5:55 PM
	Description: Monthly Progress Update - Month 2			
VistA Metadata Contract Deliverable3JMar2016.docx	https://prosight.dhh...docId=3977	25 KB	Darryl Higa	Mar 30, 2016 9:02 PM
Vista Metadata Contractual Overview 2Q2016 FINAL.pdf	https://prosight.dhh...docId=3907	656 KB	Darryl Higa	Feb 03, 2016 4:32 PM
VISTA Metadata Project Overview 2Q2016 FINAL.pdf	https://prosight.dhh...docId=3906	414 KB	Darryl Higa	Feb 03, 2016 4:32 PM
VistA Metadata Q1 Sprint Review Meeting Notes.doc.docx	https://prosight.dhh...docId=3935	261 KB	Darryl Higa	Mar 01, 2016 5:04 PM
VistA_MetadataNDA Submitted Forms.zip	https://prosight.dhh...docId=3904	1,243 KB	Darryl Higa	Feb 03, 2016 4:26 PM
VistAMetadata_PMPv1.0.doc	https://prosight.dhh...docId=3901	1,588 KB	Darryl Higa	Feb 01, 2016 8:46 PM
	Description: Deliverable - Program Management Plan			
VistAMetadata_WBSv1.0.pdf	https://prosight.dhh...docId=3902	358 KB	Darryl Higa	Feb 01, 2016 8:47 PM
	Description: Deliverable - Program Schedule - Initial			
VistAMetadata_WBSv2.0.pdf	https://prosight.dhh...docId=3898	1,469 KB	Darryl Higa	Feb 01, 2016 8:36 PM
	Description: Deliverable - Program Schedule #1			
VistAMetadata_WBSv3.0.pdf	https://prosight.dhh...docId=3947	1,514 KB	Darryl Higa	Mar 07, 2016 2:59 PM
VistAMetadata_WBSv4.0.pdf	https://prosight.dhh...docId=3978	1,515 KB	Darryl Higa	Mar 30, 2016 9:03 PM

13	Risks

Please enter all the risks related to this Contract, rate each risk and also outline the mitigation strategy for each. Kindly outline any risks you see early. It is better to identify the risks and discuss the mitigation openly, than to react to risks that have materialized. Please note in the description to which task the issue applies. The Risk Score is a calculated value based on the Risk Impact and Risk Probability with a range from 1 to 9.

#	Description	Risk Impact	Risk Probability	Risk Score	Risk Status	Risk Mitigation	Mitigation Status	Closed Date	Closed Comments
1	The required GFE/GFI to be provided by Government within 30 DACA is not provided.	Medium	Medium	4	◆	Use open source OSEHRA VISTA images and resources.	Pending		

14	Issues

Please enter all the issues related to this Contract. Kindly be open about any issues you are experiencing so that the Pacific JITC Board can be aware and assist where needed. Please note in the description to which task the risk applies.

#	Description	Date Identified	Impact	Planned Resolution	Assigned to	Status	Closed Date	Closed Comments

15	Contract Work Planned for Next Reporting Period

Please list the key tasks and deliverables planned for the next reporting period. Please format this text as described above in the Key Tasks Supported During this Reporting Period section (Group Box 11).

VDM:
MVDM from Allergies through VDM for Allergies, Documents, Assessments and Visits
Finalize Analysis of AINA data relevant for the Allergy Prototype
Enhance DD Meta of VDM to fix bugs AND fully support the MVDM Allergy
continue work on (Med) Orders

nodeVISTA: continue work on on a scalable, reliable node.js VISTA service
introduce logging and tracing
clean documentation

Web/Report
Continue writeup on RPCs being unreliable, a key chapter of the "Preliminary Technical Report" due in April
Begin Assembly of #'s needed for Preliminary Report

PM - liaise with
Dr Richards about overview of project and eHMP VISTA VMs
PJITC about gaining access through PJITC hosted VMs into the VA's test lab which hosts prod clones - call planned with lab

16	Expenditure Report

For each line please enter the CLIN Number, Total Funded Value for the CLIN (Ceiling), Amount being expended against that CLIN for the Current Period (Current Dollars), Cumulative Amount billed for that CLIN (Cumulative Dollars). Remaining Dollars are calculated by the system. Number of rows will depend on the number of CLINs in your contract.

#	CLIN	Ceiling	Current Dollars	Cumulative Dollars	Remaining Dollars
1	0001	7,816.80	651.40	1,954.20	5,862.60
2	0002	329,885.74	27,490.48	82,471.43	247,414.31
3	0003	257,538.74	21,461.56	64,384.68	193,154.06
4	0004	479,697.29	39,974.77	119,924.32	359,772.97
5	0005	109,433.05	9,119.42	27,358.26	82,074.79
6	0006	109,433.05	9,119.42	27,358.26	82,074.79
7	0008	480,876.63	40,073.05	120,219.16	360,657.47
8	0009	257,538.74	21,461.56	64,384.68	193,154.06
9	0010	3,126.72	260.56	781.68	2,345.04
10	0011	23,666.00	0.00	1,170.09	22,495.91
11					

Contract Totals

Ceiling	Current Dollars	Cumulative Dollars	Remaining Dollars
2,059,012.76	169,612.23	510,006.76	1,549,006.00

17	Invoice Tracking

For each line please enter the CLIN Number, Total Funded Value for the CLIN (Ceiling), Amount invoiced against that CLIN for the Current Period (Current Invoice), Cumulative Amount invoiced for that CLIN (Cumulative Invoice). Remaining Dollars are calculated by the system. Number of rows will depend on the number of CLINs in your contract.

#	CLIN	Ceiling	Current Invoice Amount	Cumulative Invoice Amount	Remaining Dollars
1	0001	7,816.80	651.40	1,954.20	5,862.60
2	0002	329,885.74	27,490.48	82,471.43	247,414.31
3	0003	257,538.74	21,461.56	64,384.68	193,154.06
4	0004	479,697.29	39,974.77	119,924.32	359,772.97
5	0005	109,433.05	9,119.42	27,358.26	82,074.79
6	0006	109,433.05	9,119.42	27,358.26	82,074.79
7	0008	480,876.63	40,073.05	120,219.16	360,657.47
8	0009	257,538.74	21,461.56	64,384.68	193,154.06
9	0010	3,126.72	260.56	781.68	2,345.04
10	0011	23,666.00		1,170.09	22,495.91
11					

CLIN Tracking Totals

Ceiling	Current Dollars	Cumulative Dollars	Remaining Dollars
2,059,012.76	169,612.22	510,006.76	1,549,006.00

18	Contract Status Reporting Verified By

	Please enter your name and today's date after confirming that the data entered by the contractor is correct as of this date.
Enter Name:	🔒
Approval Date:	🔒
	After clicking submit, the verifier's name will be copied into the field below. If data changes are made later, the second name field will contain a warning message instead. To reconfirm, update the approval date and submit.
Name Confirmation:	🔒

19	Contract Status Reporting last modification date

This date is updated when you submit the information. It is refreshed each time you add new content to this form and click "Submit"

Mar 30, 2016