

DEPARTMENT OF VETERANS AFFAIRS

Grassroots Innovation

VHA Innovation Program (10P7I)

VA118-12-C-0067

Remote Veterans Apnea Management Portal (REVAMP)

Monthly Progress Report

December 5, 2012

Intellica

Improving Healthcare Through Intelligent Computer Applications

REVAMP

Project Management

Meetings/Deliverables:

- 11/2/12 ReVAmp Technical Interchange Meeting
- 11/6/12 VA-Philips-Intellica Meeting
- 11/12/12 Delivery of User Acceptance Testing Plan
- 11/15/12 ReVAmp Technical Interchange Meeting

Changes in Gantt Chart:

- Added more detailed progress information by adding sub-groups to 'Development of Initial Prototype' item.

ReVAmp Software Status

- 99% Demographics Page
- 99% Treatment Tree
- 90% Encounter / Progress notes
- 99% Graphic HUB completed showing
- 75% Machine data import process
- 99% Diagnosis List
- 99% Content Management
- 99% Secure messaging
- 85% Patient questionnaires
- 99% Administration Screen
- 95% Patient Portal
- 90% Patient Notifications
- 0% Questionnaire welcome text banner for each follow-up type
- 50% System Development – waiting for the installation of the EMC2 enterprise storage. EMC2 Installation done – waiting for configuration

User Experience

Demonstration during 11/2/12 meeting (Patient Portal, SOAP Note, VA facing application):

- Intellica incorporated feedback regarding User Administration.
- Intellica incorporated feedback regarding SOAP Note.
- Intellica incorporated feedback regarding Patient Portal.

Demonstration during 11/15/12 meeting (Patient Portal, SOAP Note, VA facing application):

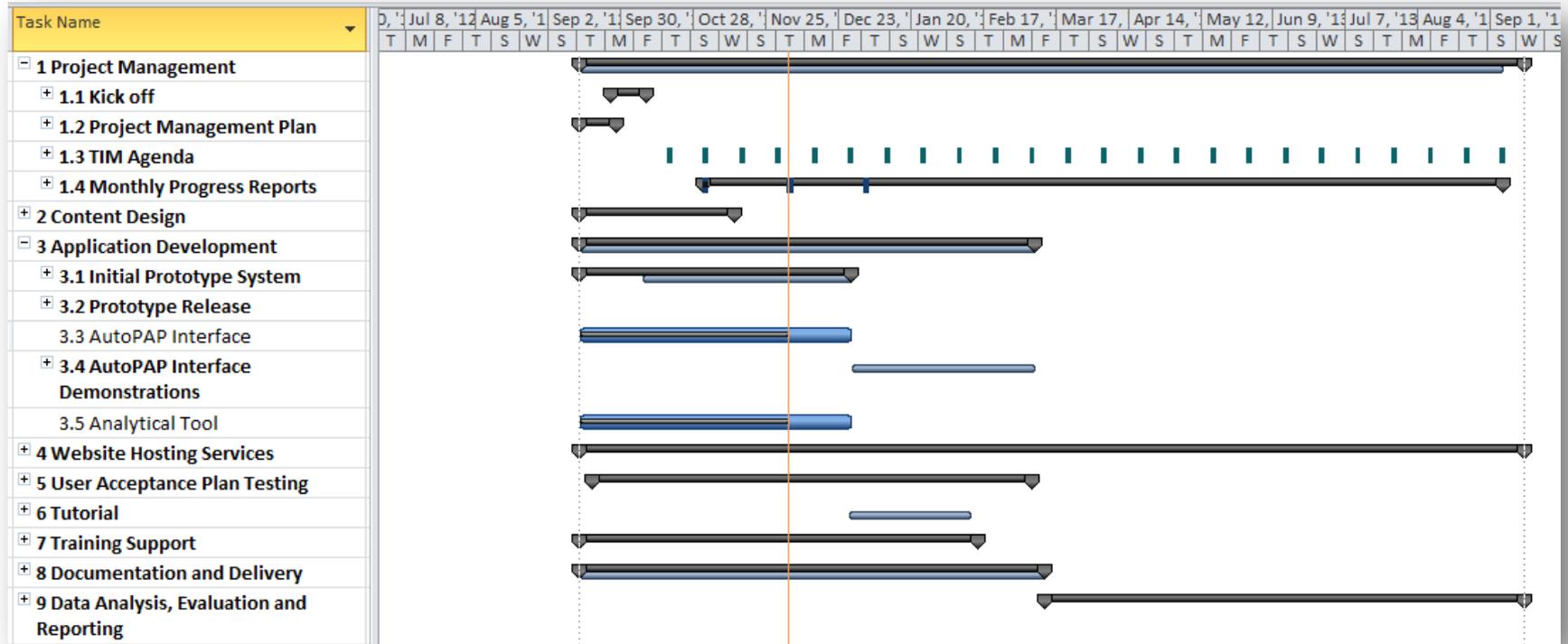
- Intellica incorporated feedback regarding SOAP templates.

Planned Accomplishments

- 12/5/12 Monthly Report
- 12/27/12* Initial Prototype Delivery
- 12/27/12* Initial AutoPAP Interface Delivery/Demonstration
- 12/27/12* Analytical Tool Delivery

*There is a contract modification pending that may change this date.

Overall Project Plan

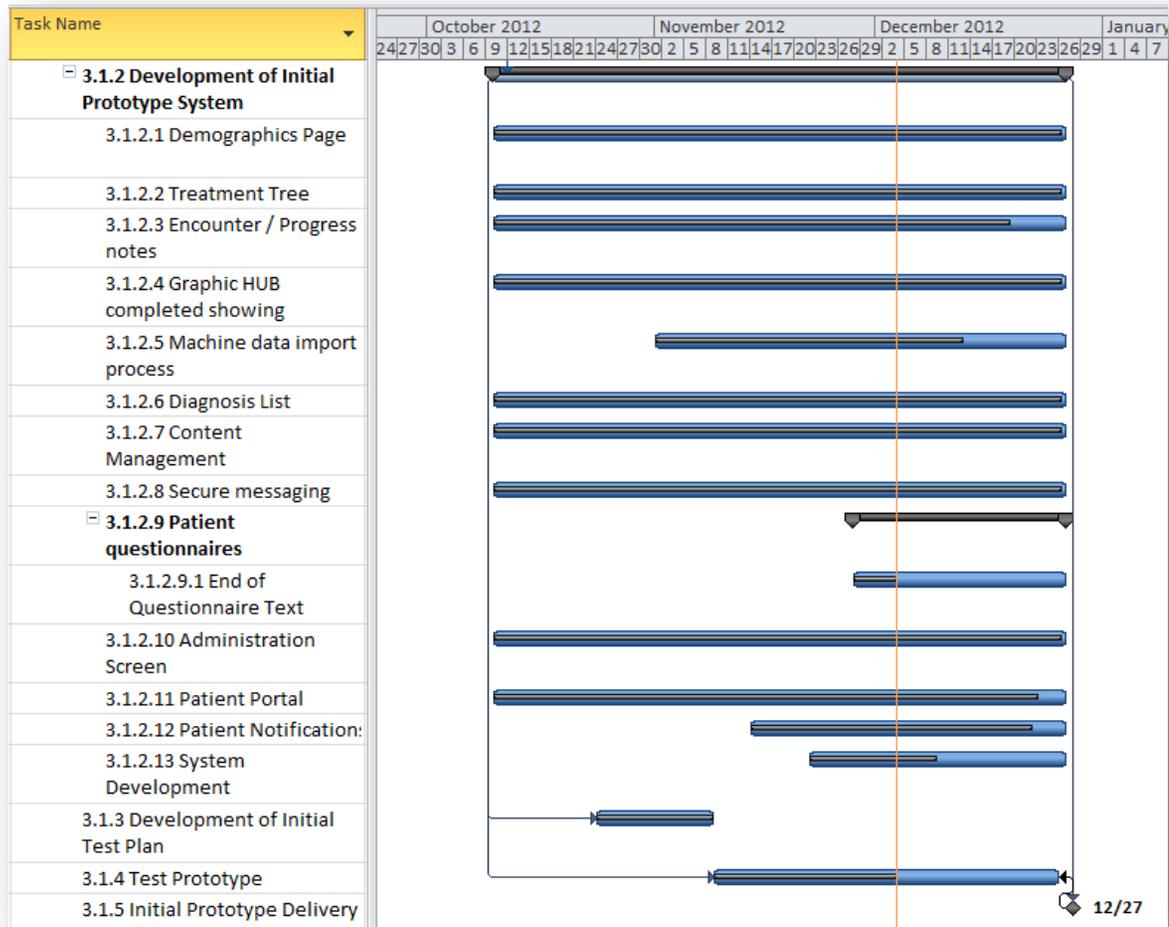


Currently Here

Critical Path Activities – Status as of 30 November 2012

- Kickoff - Complete
- User Stories/Requirements – Complete
- Set up AutoPAP Data Exchange - In Progress
- Veteran-facing Portal development - In Progress
- VA-facing Portal development - In Progress
- AutoPAP Interface development - In Progress
- Analytical Tool development - In Progress
- User Acceptance Testing - In Progress
- Final Prototype - TBD
- Data Collection - TBD
- Data Analysis, Evaluation, Reporting - TBD
- Final Delivery - TBD

Project Plan Development of Initial Prototype Detail



Currently Here

Open Action Item Summary

Action Item	Owner	Due Date	Status
Coordinate meeting between the VA, Philips and Intellica.	Intellica - Mr. Jeff Fisher	11/3/12	Complete - Meeting took place 11/6/12.
Follow up with Phillips to receive sample data.	Intellica- Mr. Craig Rebo	11/15/2012	Not Complete - Intellica is following up on receiving sample data.
Decide on text VA would like to include at the end of the questionnaires.	VA - Dr. Kuna	11/29/12	Complete - Dr. Kuna provided Intellica with text.

Risk/Issue Tracker

Severity:

Low:  Moderate:  Significant:  Severe: 

Trend:

Steady:  Improving:  Deteriorating: 

Severity	Focus Area	Risk/Issue Description	Last Update	Mitigation Path	Trend	Owner
	AutoPAP interface	ResMed and Philips receive the CPAP data from the patient. Intellica needs access to this data.	11/30/12 Probability: M Impact: H	Communicating with ResMed and Philips regarding method of accessing data. Communicating with VA regarding agreements between the companies and VA.		Mr. Craig Rebo
	AutoPAP interface	Patient data will be received and needs to be matched to patient records. At times a patient may change machines.	11/06/12 Probability: L Impact: H	Communicating with ResMed and Philips to know how data can be identified. Incorporating fields in patients' records to ensure data is linked correctly.		Mr. Craig Rebo

Compilation of TIM Minutes for November

Technical Interchange Meeting Minutes

From

Thursday, 1 November 2012

Topics Covered:

1. ReVAmp Application items accomplished to date...

99% Demographics Page

99% Treatment Tree

90% Encounter / Progress notes

90% Graphic HUB completed showing need to implement data directly from ResMed

and Philips

0% Machine data import process

99% Diagnosis List

90% Content Management

50% Secure messaging

50% Patient questionnaires

99% Administration Screen

50% Patient Portal

Agenda Items / The Project's Progress

1. Prior to the demonstration, Mr. Lago brought up that homework can be assigned to the patient within the ReVAmp application.
2. Progress has been made with ResMed. He data will be encrypted / secure.
3. The secure message function will have vanilla content and secure.
4. The patient questionnaires still need logic and skip logic. There are three or four missing modules, which are needed from Dr. Kuna.

Intellica

Improving Healthcare Through *Intelligent Computer Applications*

REVAAMP

Demonstration

1. Mr. Lago began with a login screen demonstration.
 - a. User logging in was demonstrated.
 - b. There will be a place on the login screen where the User can click if they forgot their password.
2. Dr. Kuna questioned the logo – Is it the correct one and can we use a VA logo and/or ReVAmp logo?
3. Administration / User Accounts.
 - a. The creating of and management of User Accounts was demonstrated.
 - b. Intellica asked the VA if there is anything unique that they would like to see as a field for users. The VA stated that the user's title is sufficient.
 - c. Intellica also requested that the VA let them know what types of rights need to be made available for the users.
4. Content Management.
 - a. The Content Management features were demonstrated and discussed.
 - i. There will be an ability to create static web pages for videos or other educational material
 - ii. The ability to create and edit page content including inserting images or multi-media files and giving the various content titles
 - iii. There will be an explanation of icons in the User Manual.
 - iv. After a page is created, it can be changed using the 'Edit Menu'

Mr. Henderson asked if the VA can have pre-developed templates with the initial delivery. Intellica stated that there will be pre-developed templates and the VA will be able to create their own templates.

Mr. Henderson also asked if a ReVAmp URL exists. If so, who owns it and if not, how do we get it?

5. Message Center.
 - a. Message center features were demonstrated and discussed.

Dr. Stepnowsky feels comfortable with internal messaging but has concerns about security and PHI with patient messages.

Dr. Stepnowsky also wanted to know if the application will be accessible outside of the VA; the answer being ‘No’.

- b. Provider Application Users have to be within the VA firewall in order to access application, although VA can tell Intellica which IPs are to be filtered.

6. Patient Demographics.

- a. Dr. Kuna indicated that the patient does not need to sign a consent form. When the patient goes to REVAMP they can read about the program and then decide whether they will accept to be in the program.
- b. Intellica will remove consent dialog.
- c. Intellica will add asterisks to required fields.
- d. Intellica suggested that Name and Social Security be the only required fields at first. Intellica will look into this and let VA know otherwise.
- e. Ethnicity and race can be imported from assessments.
- f. VA stated that as much demographic information as possible that can be collected from the patient, the better.
- g. The application is being structured so that in the future it could pull this information from VistA. For now, manual inputs will be required.
- h. Emergency Contact Tab – not required to be completed.
- i. Portal Account – used to provide a patient with a user name and temporary password.

Mr. Lago reminded the VA that eventually the ReVAmp application will have to be moved to the VA Sandbox and the VA will have to development and access.

7. Patient Lookup Function.

- a. Mr. Lago demonstrated the Lookup function using a previously entered sample patient.
- b. A ‘Patient Summary’ tab will display outcome measures.
- c. A third tab will be added showing what has been accomplished and what is due regarding patient progress.

8. Graphs.

- a. Intellica demonstrated and discussed the area to display patient data/graphs.
- b. Dr. Kuna said that the use of adherence when dealing with patients needs to be avoided.

- i. For the Patient Portal, patient-friendly terminology such as ‘Your use of Mask’ will be used on labels instead of terms such as ‘Adherence’.
9. Treatment Summary.
- a. Treatment Summary was demonstrated and discussed.
10. Events.
- a. There will be a date to denote when things were accomplished.
11. Notes.
- a. SOAP Note area was demonstrated and discussed.
 - b. There will be a Tabbed Notifications area that will alert the nurse of certain things they application has noted that may be of interest to the nurse (e.g., lack of treatment adherence, allergies, medications, medical conditions).
 - c. VA noted it would be nice if the type of visit (initial, 1 week, etc.) is listed somewhere in the screen near the visit date or name of patient.
 - d. Dr. Stepnowsky suggested the possibility of selecting the type of template for the visit outside of the SOAP tabs, vs. selecting the templates individually in each tab, was discussed.
 - e. VA noted there would have to be enough flexibility to create other follow-up notes such as 2 weeks, 6 months etc. Intellica stated there will be.
12. Other.
- a. Dr. Stepnowsky suggested that the visit or encounter (initial, 1 week, 1 month, etc.) be shown after the patient’s name age, sex and race as opposed to just on the treatment tree. It will be evident to the provider.
 - b. VA told Intellica to let them know if there is anything else that is needed.
 - c. Intellica will email VA with list of assessments that are missing.
 - d. Intellica will let VA know if any other feedback is needed before the next meeting (scheduled for 2 weeks from current meeting).
 - e. Mr. Fisher is coordinating a meeting between the VA, Philips and Intellica regarding data transfer.

Technical Interchange Meeting Minutes

From

Thursday, 15 November 2012

Topics Covered:

REVAMP Application items accomplished to date

- 99% Demographics Page
- 99% Treatment Tree
- 90% Encounter / Progress notes
- 99% Graphic HUB completed showing
- 50% Machine data import process
- 99% Diagnosis List
- 95% Content Management
- 85% Secure messaging
- 80% Patient questionnaires
- 99% Administration Screen
- 80% Patient Portal
- 50% System Development – waiting for the installation of the EMC enterprise storage.

Agenda Items / The Project's Progress



1. If there are any changes, outside of what is required in the contract, which the VA would like done to the items that are complete, these can be done after the contract has been met/after the initial prototype.
2. Dr. Kuna had given Intellica the ICD-10 codes.
 - a. It is Intellica's current understanding that the ICD-10 codes will not be used until FY 2014.
 - b. VA accepted keeping what Intellica has now.
3. Patient Questionnaires are all in the system, have not been tied to templates yet, but Intellica will be working on this.
4. An outgoing email server is being set up to send patients emails.
5. The EMC enterprise storage is being installed.

Demonstration

Veteran-facing Portal Demonstration:

6. Login Screen:
 - a. On the left of the screen there was an area that can be changed by VA Content Management users at any time using the Content Management function.
 - i. Intellica requested for the VA to let them know if there is any content they would like for the application to have on the login screen.
 - ii. If VA provides Intellica with the content, Intellica can add it.
 - iii. The content can be changed afterwards by the VA whenever they wish.
 - b. Patient does not need to contact the provider if they forget their password; they can use their security questions.
 - c. Patient has to contact the provider if they forget their username.
7. Graphs: The graphs will be the first section the patient will see.
8. Education:

- a. The Education section/tree is dynamic.
- b. VA can use Content Management function to update menus and pages in Education section.
- c. VA asked if the Education section will look like this when done.
 - i. Intellica explained that the Content Management users can change the hierarchy.
 - ii. Buttons could be added if VA wishes, but it was designed this way to give more flexibility.

9. Messages: It is a very secure internal messaging system.

10. Assessments:

- a. The User can make the selections by clicking on anywhere on the text /bar for a selection, making it easier for the patient.
- b. Application can be set up in a touch screen as well.
- c. Intellica asked if there was any message that they would like to add at the end of the assessments for the patient, with scores etc.
- d. VA said a message such as “You scored #### before you started treatment and today you scored ####” could show up at the end.
- e. Intellica requested VA think about what text they would like.

VA-Facing Portal demonstration:

- 11. Login screen: This screen is simpler for VA-facing side (without the educational text) since it is an application to be utilized in a different way than the Veteran-facing side.
- 12. Dashboard: The application will have a custom dashboard for the Users.
- 13. Messages: There is an icon that shows up to let the provider know that he/she have a message.
- 14. Graph Hub: User can see graph hub for individual patients in their record.

15. Events:

- a. The User can see the list of events that have been completed for a patient.
- b. Some events will be automatically updated; others need to be manually updated.

16. Application has been simplified for ease of use.

17. SOAP Note:

- a. Subjective:
 - i. Text was created with the sample note provided by Dr. Kuna.
 - ii. Currently it is not automatic, but template will be created to pull data from questionnaires.
- b. Objective:
 - i. Intellica asked the VA if the CPAP Adherence download in the Objective section should only include data from the last visit until the present or if it should include all data since the beginning of treatment.
 - ii. VA responded that it should only include data from the last visit until the present visit, but that it would be good to have an option to see all data.
 - iii. A data can be seen in the Graph hub and user can select range of data.
- c. Assessment/Plan:
 - i. Demonstrated.

18. Graphs:

- a. Intellica will add data to all graphs for the next Technical Interchange Meeting.
- b. Other graphs will be added.
- c. Ability to adjust time frame was demonstrated.

19. Content Management:

- a. Intellica demonstrated creating a page.
- b. User must create the static web page.
- c. User can then designate where they want to place the page.

20. Template Management:

- a. It will be modified so that Users can build groups of templates (E.g. one or more groups for 1 week follow up).

21. User Management:

- a. User Management was demonstrated.
- b. Intellica requested that VA verify the name of the clinics (currently listed as ‘Sleep Medicine Section, Philadelphia VA Medical Center 0125’).
- c. Intellica requested that Dr. Carl Stepnowsky provide via email the name of his clinic.

22. System Settings:

- a. Intellica will add a field for Text Message IP.

23. Aggregate Report:

- a. VA asked what data was being included in the aggregate reports.
- b. Intellica explained that the application takes the most recent score for each person.
- c. This data can be useful for health disparity reports.
- d. VA mentioned that they would be interested in the ability to pull aggregate information about initial values of patients entering REVAMP or changes over a particular date range.

- e. Intellica requested that VA create a list of aggregate reports that would be good to include in the application.
 - i. If it is something that can be added easily with the current set up, Intellica will add it.
 - ii. If it is something that would need extra work, Intellica can look into adding it after the initial prototype.
- f. VA (Dr. Kuna and Dr. Stepnowsky) will create a list and submit it to Intellica.

Other

1. Layout:

- a. Intellica mentioned that the contract says VA will select the layout from the options submitted. If VA would like a different layout Intellica would need to know soon because of the limited time.
- b. VA accepted current layout for Intellica to continue working with it.
- c. VA requested that the Veteran side Portal have REVAMP spelled out like on the VA side, for clarity.
- d. Intellica plans to have dynamic data for next meeting.

2. VA (Mr. Henderson) asked who he needed to talk with about data ownership.

- a. VA stated it seems like the end user agreement between Philips/ResMed and VA is explicit enough; Philips and ResMed don't claim ownership of data.
- b. VA decided at this time not to invest any more time on this issue.
- c. VA (Mr. Henderson) will post the agreement to the wiki as part of the documentation.
- d. Intellica stated it does not have a problem with this decision. Intellica will not claim ownership and will leave it up to VA and the companies.

3. Next year the application needs to be moved to the Sandbox.