

Weekly Project Status

FCCJ - ORION II

Date: 9/23/2003

Project Manager: Julie Rowe

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| Project Team: | Robert Scott | Sr Programmer Analyst / Backup PM |
| | Bob St. Leger | Sr Systems Engineer |
| | Patrick Grayson | Sr Programmer Analyst |
| | Dave Gahrng | Sr Programmer Analyst |

Project Scope

Software AG Professional Services, in cooperation with FCCJ IT staff, are in the process of migrating the FCCJ ORION application (site-specific version of the FCCSC Integrow application) from the current VM/VSE platform to a Sun Solaris UNIX environment. Web Services will be developed to expose all ORION functions to the Internet. A replacement solution will be developed for Treehouse products tRelational and DPS to support the newly developed user reporting function.

A methodology will also be delivered to provide a seamless process for accepting new versions of the FCCSC Integrow application and migrating the updates to the Unix platform.

Tasks Completed

- Continued correcting/modifying Natural code and addressing Natural Security and DDM renumbering issues
- Continued research and development of AdaProp, replacement solution for tRelational/DPS
- Began work of Natural interface to basic Unix functions, i.e. print, file display and manipulation, etc.
- Cobol compiler installed, began planning for migration of Cobol code
- Completed Predict migration
- Continued JCL analysis, researched issues, began coding conversion routines
- Continued online Unit Testing

Tasks Planned

- Finalize legacy application requirements document and deliver to FCCJ for planning
- Continue work of Natural interface to basic Unix functions, i.e. print, file display and manipulation, etc.
- Continue gathering info for the external interface inventory
- Continue JCL analysis, research issues and coding of conversion routine
- Continue development of AdaProp
- Continue correcting/modifying Natural code
- Online Unit Testing
- Complete Web Services function list, with basic estimates for development
- Begin draft of repeatable migration/port methodology document
- Complete Unix Security definition document (as relative to SAG products)

Follow-ups

| Description | Assigned | Requested By | Closed | Owner |
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| Are there any additional Cobol routines outside of the Wolffpack system which need migrated to Unix JR – total of 34 routines identified to date 8/29 | Paul Freeman / Ed Gonzalez | 8/19/03 | | Patrick Grayson / Julie Rowe |
| Need Cobol compiler JR – PO prepared and ready to be sent, MicroFocus Cobol selected JR – some confusion has arisen over this procurement, need clarification from Paul and estimate for delivery | Paul Freeman | 8/29/03 | 9/25/03 | Julie Rowe |
| Need SyncSort software JR – software onsite 8/19/03, given to Don Harris for install JR – installation delayed by Don Harris until Cobol compiler is received | Paul Freeman / Don Harris | 8/18/03 | 9/25/03 | Julie Rowe |
| Need to define printers to Unix | Don Harris | 10/30/03 | | Julie Rowe |
| Need to define users to Unix JR – SAG will provide document for | Don Harris / Julie Rowe | 10/30/03 | | Julie Rowe |

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| recommended security definitions by 10/3 | | | | |
| <p>Tape/Disk Management procedures discussion / standards for ORION II work files</p> <p>JR – E12K currently has DLT attached, interface inventory will determine if other devices or services are required for tape. All Work files will go to a single directory to be identified in the standards document</p> | Bob St. Leger / Don Harris | 9/12/03 | | Julie Rowe |
| FCCJ staff to complete file inventory list sorted by high-level qualifier | Paul Freeman / FCCJ staff | 9/19/03 | | Patrick Grayson |
| <p>Unable to connect to SAG via Nortel VPN from Martin Center office</p> <p>JR – contacted SAG help desk 8/27 and requested they contact Ron Smith</p> <p>JR – will setup con call with Help Desk week of 9/15</p> <p>JR – dialog ongoing between SAG and Ron Smith</p> | Don Harris / Ron Smith | 8/29/03 | | Julie Rowe |
| <p>Develop Web Services estimate for SAG to perform the full suite of tasks</p> <p>JR – List of ORION functions provided, estimate document now planned for 10/3</p> | Julie Rowe | 9/17/03 | | Julie Rowe |
| <p>Need to determine if Touch Tone/EPOS system will be implemented on Unix</p> <p>JR – Paul evaluating statistics, plan is to eliminate system by January 2004 and not migrate to Unix</p> <p>JR – Task team setup to further evaluate</p> | Paul Freeman | 10/30/03 | | Julie Rowe |
| Need to add technical section to ORION II website | Chrystal Wickline / Rob Rennie | 9/26/03 | 9/23/03 | Julie Rowe |
| Need to test Adabas option to perform OS level backup | Bob St. Leger / Don Harris | 10/30/03 | | Julie Rowe |

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| Need to obtain ADASAV layout / internals info JR – contact initiated between SAGD and project team | Julie Rowe / Dave Gahring | 9/23/03 | | Julie Rowe |
| Need plan for software distribution (Terminal Emulation) | Don Harris | 10/30/03 | | Julie Rowe / Bob St. Leger |

Issues

| Description | Assigned | Opened | Closed | Owner |
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| Log #519192, waiting on fix from SAG R&D, inappropriate NAT0431 errors, this affects approximately 40 modules JR – Rob checking to see when PL will be released with fix JR – early release has been pushed back to late-November, need to determine the impact on testing | Denver support / Germany | 7/29/03 | | Rob Scott |
| Terminal emulation colors are not showing up correctly or vary from MF 3279 colors JR – Paul to setup meeting with users to demo colors JR – demo provided, Bob working on script to add CD attribute to maps, regen of Construct opens cursor positioning. Will schedule another demo once these items have been implemented. Paul may send out RFI to evaluate other products. | Bob St. Leger / Paul Freeman | 8/19/03 | | Julie Rowe / Paul Freeman |
| Sequential files that contain packed /binary fields require multi-step conversion and data layouts for migration to Unix | Patrick Grayson / Bob St. Leger | 8/19/03 | | Patrick Grayson |
| Natural Advanced Facilities used for printing on the mainframe, several FCCSC utility modules call NATAF directly, need to research further and | Rob Scott / Patrick Grayson | 9/15/03 | | Rob Scott |

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| address replacing this functionality on Unix | | | | |
| A few FCCSC modules read Predict system files, need to determine if needed as system file layouts are different | Rob Scott | 8/20/03 | | Rob Scott |
| Wolffpack Adabas files have alpha fields which contain binary data, this will increase estimates for migration of Wolffpack Adabas data JR – each file is being addressed/converted as discovered | Bob St. Leger | 9/1/03 | | Julie Rowe |
| Two FUSER's are defined in Natural Security steplibs, what is the reason for this? We have to manually modify these definitions unless there is a need/reason to create another FUSER. Are we missing some libraries? | Bob St. Leger | 9/15/03 | | Julie Rowe |
| Wolffpack uses custom Construct models/frames that are not distributed to the consortium. We need to obtain these models/frames to re-gen code. | Paul Freeman | 9/23/03 | | Julie Rowe |

Change Requests

| CR # | Description | CR Approved | Assigned | Completed |
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| FCR001 | Create duplicate MF menu screen on Unix | | | |
| FCR002 | Assign System Test Plan to FCCJ | | | |
| FCR003 | Increase Technical Project Manager hours | | | |

Deliverable Status / Acceptance Criteria

| Task | Acceptance Criteria | Estimated Delivery Date | Delivery Date | Acceptance Date |
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| Pre-Project Setup <ul style="list-style-type: none"> Procure Hardware (3rd party products will be defined at a later date) Install/Configure operating system Identify team members Acquire/Install/Configure 3rd-party products (3rd party products will be defined at a later date) | N/a | N/a | N/a | N/a |
| Project Kickoff <ul style="list-style-type: none"> Project Plan confirmation Assign Roles/Responsibilities Define standards | <ul style="list-style-type: none"> Delivery of Project Kickoff meeting, accepted upon delivery | 7/29/03 | 7/29/03 | 7/29/03 |
| Unix Mentoring <ul style="list-style-type: none"> Provide hands-on Unix education, including basic scripting, use in the Natural environment and follow-up mentoring as necessary | <ul style="list-style-type: none"> Delivery of document describing mentoring sessions, agreed upon by Software AG and FCCJ Delivery of mentoring defined in document above Accepted upon delivery | 2 days delivered via separate contract. Estimate for remaining 3 days pending FCCJ request. | | |
| Evaluate customized Adabas User Exits and develop replacement solutions (Assembler) <ul style="list-style-type: none"> Identify User Exits in use Develop plan to replace or eliminate customized User Exits Create new User Exits | <ul style="list-style-type: none"> Delivery of document describing Adabas User Exits in use, identifying all to be replaced Delivery of functional replacement of each Adabas User Exit defined in document above Accepted upon delivery | Date TBD based upon response to question concerning use of Adabas User Exits. | | |
| Evaluate tRelational/DPS solution and develop architecture for replacement solution | <ul style="list-style-type: none"> Delivery of architecture document for replacement | Architecture document delivered 9/9/03 | | |

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| <ul style="list-style-type: none"> Analyze use of tRelational/DPS usage Develop new architecture to replace solution Develop solution framework Implement one instance of the new solution | <p>solution agreed upon by Software AG and FCCJ and that meets the minimum needs described in this SOW</p> <ul style="list-style-type: none"> Implementation in Production of one (1) instance of the replacement solution defined above | <p>Solution delivery planned for 10/17/2003</p> | | |
| <p>Evaluate VSAM usage and archive or convert data</p> <ul style="list-style-type: none"> Analyze use of VSAM Develop plan to convert VSAM files and modify programs using them Execute plan | <ul style="list-style-type: none"> Delivery of spreadsheet listing all VSAM files in use, identifying all to be migrated, converted to text, or converted to Adabas Delivery of plan document for performing the migration and modifying Natural code to access appropriately | <p>Inventory and Migration plan documents planned for 9/19/2003</p> | | |
| <p>Evaluate use of Tape data and/or Workfile data</p> <ul style="list-style-type: none"> Analyze use of other data sources Develop plan to archive or convert data Execute plan | <ul style="list-style-type: none"> Delivery of spreadsheet listing all Tape and/or Workfile data in use, identifying all to be migrated, Delivery of plan document for performing the migration | <p>Inventory and Migration plan document planned for 9/26/2003</p> | | |
| <p>Status Reporting/Meeting</p> <ul style="list-style-type: none"> Prepare status reports Attend status meeting | <ul style="list-style-type: none"> Delivery of weekly status reports delivered to FCCJ Project Manager, accepted upon delivery | <p>ongoing</p> | | <p>As delivered</p> |
| <p>Setup security</p> <ul style="list-style-type: none"> Establish all applicable security to accomplish re-hosting effort (Unix, MF, Natural/Adabas, FTP) | <ul style="list-style-type: none"> Delivery of document listing resources and type and level of security required during the re-hosting project Delivery of document describing Unix security | <p>Security for project team established, document to be provided by 8/29</p> <p>9/22/2003 (for user requirements)</p> | | |

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| | requirements for Adabas/Natural users | | | |
| Establish Procedures <ul style="list-style-type: none"> • Backup/Recovery • Print Management • Version Control • Batch scripting standards | <ul style="list-style-type: none"> • Delivery of technical discussions and mediation on the procedures topics listed, accepted upon delivery | Ongoing | | As delivered |
| System Test Plan <ul style="list-style-type: none"> • Define the scope and method of System Testing for online and batch. This includes scope of data to be tested and validated, length of testing, parallel testing, batch cycle testing, etc. | <ul style="list-style-type: none"> • Delivery of Systems Test Plan document | This is subject to a change request, FCR002, and will be assigned to FCCJ | | |
| Implementation Plan <ul style="list-style-type: none"> • Define steps to be taken in prior to and during production cutover. This includes details on timing, training, contingencies, etc. | <ul style="list-style-type: none"> • Delivery of Implementation Plan document | 11/28/2003 | | |
| Install/Configure Software AG products in Production, Test, and Development <ul style="list-style-type: none"> • Adabas • Natural • Natural Security • Predict • Natural Construct • EntireX | <ul style="list-style-type: none"> • Visual inspection of defined Products running in Development, Test and Production | 9/10/2003 (for Acceptance) 10/8/2003 (for Prod) | 8/22/2003 (for Test) | |
| Re-host Natural Modules <ul style="list-style-type: none"> • Migrate, catalog and unit test approximately 21000 Natural modules as identified prior to project initiation | <ul style="list-style-type: none"> • Successful catabolism of Natural modules within the libraries defined in this SOW | 9/26/2003, pending PL fix from Denver for NAT0431 | | |
| Re-host Adabas data <ul style="list-style-type: none"> • Migrate and convert physical Adabas files as identified prior to project initiation (this task may occur multiple times pending definition of System Test Plan) | <ul style="list-style-type: none"> • Delivery of comparable ADAREP's from the source and target environments • Visual inspection of data | 9/19/2003 (for System Test data) | 8/5/2003 (for Unit Test data) | |
| Convert Natural Security data | <ul style="list-style-type: none"> • Visual inspection of Natural Security | 10/3/2003 Basic data | | |

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| <ul style="list-style-type: none"> Migrate and convert Natural Security data stored in the Production, Test and Development databases | data from the source and target environments | migrated, manual corrections must be made for file links | | |
| Convert Predict data <ul style="list-style-type: none"> Consistency Check Migrate Predict data | <ul style="list-style-type: none"> Visual inspection of Predict data from the source and target environments | 9/26/2003 pending fix from Denver or manual migration of individual metadata types | 9/26/2003 | |
| Re-host JCL and develop Job Submission system <ul style="list-style-type: none"> Migrate and convert approximately 2000 production batch jobs Develop online Job Submission system in Natural | <ul style="list-style-type: none"> Delivery of an inventory document listing all JCL to be migrated Delivery of Unix scripts to replace JCL defined above | 10/10/2003 | | |
| Web Services <ul style="list-style-type: none"> Provide Technical support in the use of the appropriate EntireX wrapper technology Develop Web Services | <ul style="list-style-type: none"> Delivery of technical guidance and mentoring on the use of EntireX wrapper technology, accepted upon delivery Delivery of a plan document for developing Web Services for Orion functions (to be selected by FCCJ) | 10/3/2003, pending CR for SAG to perform all Web Services work, this will alter the scope of this task | | |
| System Test Online <ul style="list-style-type: none"> In accordance with established test plan | <ul style="list-style-type: none"> Delivery of technical support and problem resolution during System Online testing, accepted upon delivery | 3/1/2004 | | |
| System Test Batch <ul style="list-style-type: none"> In accordance with established test plan | <ul style="list-style-type: none"> Delivery of technical support and problem resolution during System Batch testing, accepted upon delivery | 3/1/2004 | | |
| Production Implementation <ul style="list-style-type: none"> Migrate data Shutdown MF access Migrate Natural modules | <ul style="list-style-type: none"> Delivery of 24x7 technical support for implementation tasks as defined in the implementation plan above, | 3/22/2004 | | |

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| <ul style="list-style-type: none"> • Install/Configure Terminal Emulation | <p>accepted upon delivery</p> | | | |
| <p>Post-Implementation Support</p> <ul style="list-style-type: none"> • Offsite post-implementation technical support | <ul style="list-style-type: none"> • Delivery of up to 160 hours of post-implementation technical support specific to tasks defined in this SOW, accepted as worked | <p>4/23/2004</p> | | |