



*An Electronic Medical Record and Document Management Company*

VXVISTA 2013.0

OPEN SOURCE RELEASE NOTES

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September 2013

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## REVISION HISTORY

# vxVistA 2010.1

Date Implemented: June 14, 2011

<b>Category</b>	Visual
<b>Problem Description</b>	The Sign-on screen for terminal mode. Support for 1,2, or 3 columnar display the section of code to be modified on an implementation basis was changed to be easier to modify.
<b>Resolution</b>	Routine Modified: VFDZUMU

<b>Category</b>	New Functionality
<b>Problem Description</b>	In DSIC there were utilities (libraries) for getting visit, admissions, and scheduling data These were DSICVT. These have been converted to VFDCVT for use in the Open Source. The TIU Objects changes below are the first program to call any of these VFDC functions
<b>Resolution</b>	Routines Modified: VFDCVT, VFDCVT0, VFDCVT00, VFDCVT1, VFDCVT2, VFDCVT3, VFDCVTA Remote Procedures: VFDC GET SCHED APPTS, VFDC GET VISITS/APPOINTMENT, VFDC GET VISITS ONLY

<b>Category</b>	TIU Objects
<b>Problem Description</b>	There has been no update to these since the release of vxVistA 2010.1 in Jan 2010 This update includes the latest version of these elements
<b>Resolution</b>	There are 3 new objects: BMI, PATIENT NAME FIRST ONLY, and LAST DISCHARGE DATE Routines Modified: VFDTIU0, VFDTIU1 Files: TIU DOCUMENTATION DEFINITIONS (#8925.1) exports only those entries whose METHOD invokes '^VFDTIU'

<b>Category</b>	ARRA
<b>Problem Description</b>	<ul style="list-style-type: none"> <li>Some of the data was not calculating properly. Also some remnants from the rewrite of the original were still left around.</li> <li>With the change of the B index on file 21631 the \$\$FIND1^DIC lookup failed. So a temp fix was put in place</li> </ul>
<b>Resolution</b>	Routines Modified: VFDRPAR1, VFDRPARL

<b>Category</b>	ARRA
<b>Problem Description</b>	<ul style="list-style-type: none"> <li>Extensively rewritten as the report was not computing properly</li> <li>Median value is now being returned</li> <li>Technical changes to the Table module</li> <li>Data Dictionary - file 21631 [VFD ARRA REPORT CODE MAPPINGS] <ul style="list-style-type: none"> <li>.01 field indexes</li> <li>Traditional standard B index deleted</li> <li>New Style standard B index added with the full name (50 chars) in the index</li> <li>C (KWIC) index deleted and re-entered so that the KWIC parser would not parse the name on '.' or '-' thus allowing for looking up by CMS Table # or JC #.</li> </ul> </li> </ul>

<b>Resolution</b>	Routines Modified: VFDRPAR1, VFDRPAR, VFDI0003
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<b>Category</b>	ARRA Reports and Extracts
<b>Problem Description</b>	<ul style="list-style-type: none"> <li>The Meds .CSV extracts was not returning the all the records or the correct data.</li> <li>The Lab .CSV extract did not have the ‘-’+check digit as part of the LOINC name. Now it does. For this to work, it requires the DSS Proprietary Build for the Quest Interface.</li> <li>The admissions/discharge .CSV extract was not displaying the discharge “type”.</li> </ul>
<b>Resolution</b>	Routines Modified: VFDORDP, VFDRPARB, VFDRPARI

<b>Category</b>	ARRA Emergency Department Reports
<b>Problem Description</b>	Changed logic for patients admitted for Observation to use Location, instead of movement. Logic added to remove temporary globals after generation of XML file.
<b>Resolution</b>	OPTIONS: VFD ARRA EMER DEPT 1 REPORT      ARRA Emergency Dept-1 Report VFD ARRA EMER DEPT 2 REPORT      ARRA Emergency Dept-2 Report

<b>Category</b>	ARRA Reports and Extracts
<b>Problem Description</b>	ARRA Meds CSV extract – header for columns 3-5 was not was expected. ARRA Lab CSV extracts – LOINC codes did not have a dash in it.
<b>Resolution</b>	Routines Modified: VFDORDP, VFDRPARI

<b>Category</b>	RXNORM codes
<b>Problem Description</b>	Problems with moving RXNORM codes to NDF file.
<b>Resolution</b>	Routines Modified: VFDI0003, VFDI0003A

<b>Category</b>	ARRA Reports
<b>Problem Description</b>	<ul style="list-style-type: none"> <li>Lab extracts was not generating a CSV file, This has been fixed.</li> <li>The medications extract had a new request to add column headers to the extract.</li> <li>The Emergency Department reports had some fixes</li> <li>The admission/discharge movement extract and the inter-ward transfer extract had similar and multiple problems. These reports should be working properly now.</li> </ul>
<b>Resolution</b>	Routines Modified: VFDRPARB, VFDRPARD, VFDORDP, VFDRPARI, VFDRPARU, VFDRPARX New API: \$\$DATE(start,end) which QA’s the start and end dates. The modules above were changed to call this new API.

<b>Category</b>	ARRA Reports and Extracts
<b>Problem Description</b>	<ul style="list-style-type: none"> <li>Modules EN1, EN2 NEW’d variables END and START when they should not in ERV1, ERV2 changed the logic on the lines setting the variable END</li> <li>Missing discharge dispositions</li> <li>Several potential problems fixed to prevent potential M errors: \$QS() problems as previously encountered in other modules (PATMEDS1, LABLST). NEW and SET of the variable DT (PATPBLMS). Program efficiencies to eliminate unnecessary nested DOs: INDRG, NUADRG, OUTDRG, others</li> </ul>

	<ul style="list-style-type: none"> <li>• Changed modules CRDATE and CRTIME to use \$\$FMTE^XLFD instead of using hardcoded M code.</li> <li>• In the IXML module the FOR looping as if the VFDAR reference had two subscripts. Yet ^VFDIRSTG was passing the named reference with three subscripts. Other clean up was done. No file was being generated.</li> <li>• Problems with variables and formal parameters stepping on one another. The global reference named variable was set to 3 subscripts level, yet the called routine IXML^VFDPRPX was expecting the reference to have two subscripts.</li> <li>• Same date was put in all reports instead of the correct date.</li> <li>• An &lt;UNDEFINED&gt; error was encountered in LOG^XWBDLOG. An older version of the Modification was present.</li> </ul>
<b>Resolution</b>	Routines Modified: VFDRPAR1, VFDRPARI, VFDRPARU, VFDRPARX, EN^VFDIRSTG, XWBDLOG, VFDXWB, VFDXWBA, VFDXWBB

<b>Category</b>	ARRA
<b>Problem Description</b>	Changes to support SQL extract
<b>Resolution</b>	<p>Routines: VFDAARLPM, VFDAARLST, VFDAORDP, VFDRPARQ, VFDRSTG, VFDRPARI, VFDRPARU, VFDDGPMU, VFDRPAR1, VFDRPARU, VFDRPARX</p> <p>RPCs: VFD ARRA XML GENERATOR, VFD DGPM ADMIT, VFD DGPM DISCH, VFD DGPM INPAT</p> <p>VFD ARRA EXTRACT RUN, VFD ARRA INP XML, VFD ARRA IN PT XML, VFD ARRA ED-1, VFD ARRA ED-2, VFD ARRA ORDERS LIST</p> <p>OPTION : VFDVX REPORTS GUI</p> <p>New API: \$\$MEDIAN^VFDXT(named_reference) - this will return the median value for a list of numbers.</p>

<b>Category</b>	ARRA
<b>Problem Description</b>	Audit log report modified to always prompt for a starting and ending dates regardless of the primary way the report was sorted.
<b>Resolution</b>	Routine Modified: VFDA302R

<b>Category</b>	ARRA
<b>Problem Description</b>	<ul style="list-style-type: none"> <li>• VTE reports modified to fixed various potential M errors</li> <li>• CPOE and Lab orders reports modified to fix the reporting of its numbers</li> </ul>
<b>Resolution</b>	<p>Routines Modified: VFDPARA, VFDPARC</p> <p>Option: VFD ARRA MAIN MENU</p>

<b>Category</b>	ARRA
<b>Problem Description</b>	Emergency Department reports were not expecting an end date with time
<b>Resolution</b>	<p>Routines Modified: VFDPAR1, VFDRPAR2, VFDRPAR3, VFDRPAR4, VFDRPAR5, VFDRPAR6, VFDRPAR6, VFDRPAR8, VFDRPAR10, VFDI0003</p> <p>Option: VFD ARRA STROKE REPORTS</p>

<b>Category</b>	ARRA
<b>Problem Description</b>	<ul style="list-style-type: none"> <li>• Syndromic surveillance - if the admission did not contain an ICD9 diagnosis code, then when the HL7 message was generated, it threw an M error.</li> <li>• Correct version of the VFDPXIM2 routine which is used in the GUI to record the administration of an immunization.</li> <li>• Correction of export the three local fields (21600.0x) in the V IMMUNIZATION file.</li> <li>• Correction of export the VFD IHTSOD file (#21640.01) (SNOMED)</li> </ul>
<b>Resolution</b>	<p>Routines Modified: VFDDGPMU, VFDRPARC</p> <p>RPC's Modified: VFD DGPM ADMIT, VFD DGPM DISCH, VFD DGPM INPAT</p> <p>RPCs added to GUI Menu Contexts:</p> <p>vx CPRS Added RPC VFD PXIM ADMIN</p> <p>vx Vitals Added RPC VFD GET VITALS MEASUREMENT</p> <p>OPTIONS:</p> <p>VFD ARRA MAIN MENU, vxVistA Main Menu for ARRA Requirements</p> <p>VFD ARRA 170.302(n), CPOE 170.302(n) Inpatient Report</p> <p>VFD ARRA 173.02(n), Number of results by lab tests ordered</p> <p>VFD ARRA LA000 NIST 170.306g, NIST 170.306g</p> <p>VFD ARRA LAB 170.302(n), LAB 170.302 (n) Report.</p> <p><b>Note</b> – the main menu is new and will be the repository for ALL terminal mode options developed specifically for ARRA compliance for which there did not previously exist in VistA an option to perform the specific ARRA task.</p> <p>FILE: VHD IHTSDO (#21640.01) which is equivalent to a V SNOMED file</p> <p>Added multiple new entries to file21631.</p> <p>New API: VFDDGPMU shall be used by all developers of ARRA reports or quality measures.</p> <ul style="list-style-type: none"> <li>• Get inpatient admissions for a date range</li> <li>• Get inpatient discharges for a date range</li> <li>• Get list of all inpatients movements (and thus all patients) who were an inpatient at any time within the date range</li> </ul>

<b>Category</b>	Health Factors and Health Summaries
<b>Problem Description</b>	Change for Smoking Health Factors that are displayed in Health Summaries to print the date and time of the health factor and not just the date
<b>Resolution</b>	Routine modified: GMTSPXFPM

<b>Category</b>	ARRA Reports
<b>Problem Description</b>	<p>This file has two main purposes for ARRA reports and ARRA export message specifications:</p> <ul style="list-style-type: none"> <li>• Store mappings of external data sets to vxVistA, Fileman compatible formats</li> <li>• Store specific data elements required for reports to use as filtering criteria</li> </ul> <p>This first version of this file is exported with 10 different reporting criteria records. The file was intentionally designed to allow for easy editing using Fileman Enter/Edit .</p>
<b>Resolution</b>	New File: VFD ARRA REPORT CODE MAPPINGS (#21631)

<b>Category</b>	Generic vxVistA HL7 PID-segment generator
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<b>Problem Description</b>	The VA Vista PID segment generator is insufficient for the needs of vxVista. Instead of modifying the VA source code to meet the needs of vxVista, we built a new PID generator. This will not be able to be tested by QA until a vxVista application starts using this new feature. This almost always will be involved in interface development. This version supports the new TIME OF BIRTH field added to the Patient File Data Dictionary.
<b>Resolution</b>	Routine Modified: VFDHLPID

<b>Category</b>	ARRA Syndromic Surveillance
<b>Problem Description</b>	Various changes
<b>Resolution</b>	<p>New components :</p> <p>Routines: VFDSUR, VFDSUR01, VFDSURU</p> <p>HL Logical Links: VFD_SYNSUR</p> <p>HL App Parameter: ARRA, VXVISTA</p> <p>Protocols: VFD ADT-A01 SYN SUR CLIENT VFD ADT-A01 SYN SUR SERVER VFD ADT-A01 SYN SUR ROUTER</p> <p>Parameter Definition: VFD HL7 SUPPRESS PHI FOR EVENT</p> <p>Updated Protocol: VAFC ADT-A01 SERVER VFD ADT-A01 SYN SUR ROUTER added as a subscriber</p>

<b>Category</b>	New Functionality
<b>Problem Description</b>	<ul style="list-style-type: none"> <li>• Clean up the CPT MODIFIER file (#81.3) if necessary. When updating the CPT file, we accidentally imported some CPT MODIFIER data in an incomplete state. The original FOIA Cache.dat file has no entries in the Modifier table as it should be. If a bad file contents is detected, then this post-init will purge CPT Modifier file back to its FOIA state.</li> <li>• New Parameter to control whether or not vxCPRS will present the selection of reference laboratories list.</li> <li>• Order File new field called PERFORMING FACILITY (#21600.01) which will store the name of the reference laboratory that will be resulting this order.</li> </ul>
<b>Resolution</b>	<p>Parameter Definition: VFD CPRS REF LAB</p> <p>File: ORDER file (#100)</p>

## vxVistA 2011.1

Date Implemented: August 14, 2012

<b>Category</b>	ARRA NQF REPORTS
<b>Problem Description</b>	Audit report could error if a sort criterion other than DATE was selected. Date range is now asked for all sorts by types, not just when DATE SORT was selected.
<b>Resolution</b>	Routine Modified: VFDA302R Options: VFD ARRA 170.302(r)

<b>Category</b>	New Functionality
<b>Problem Description</b>	Need the ability to run a function which will loop through the patient file and generate a pseudo-SSN for any existing patient file records with a null SSN field. A report of the patient records which had a new pseudo-SSN created.
<b>Resolution</b>	This utility can be run at any time from the programmer's prompt as follows: <b>D SSNCK^VFDSSNG(0,1,1)</b> Routine Modified: VFDSSNG

<b>Category</b>	New Functionality
<b>Problem Description</b>	Certain reports and displays in vxVistA have been modified to look for this parameter. Based upon the value of this parameter, alternatives will be displayed in place the Vista default of SSN.
<b>Resolution</b>	Parameter Definition: VFD PATIENT ID

<b>Category</b>	New Functionality
<b>Problem Description</b>	Add as option for SEX field the option for UNKNOWN.
<b>Resolution</b>	File: PATIENT (#2) - field (#.02) has been updated to include U for UNKNOWN sex.

<b>Category</b>	Immunizations
<b>Problem Description</b>	Several fixes from the first release of the IMMUNIZATION functionality.
<b>Resolution</b>	New RPC exported and added as part of the vxCPRS menu context: VFD PXIM ADMIN The new RPC will store the data for the actual administration of immunizations Modified the PCE file V IMMUNIZATIONS (#9000010.11) New fields: DOSE, UNITS, VFD IMMUNIZATION These fields will be populated with new features in the vxCPRS GUI Modified the VFD IMMUNIZATION file (#21630.01) New Field: IMMUNIZATION which is a pointer to the PCE IMMUNIZATION file

<b>Category</b>	ARRA
<b>Problem Description</b>	<ul style="list-style-type: none"><li>Fix M errors in VFDCFM, VFDCFM01, VFDRPAR1, VFDRPARC</li><li>Environment check routine fixed to allow KIDS to be installed in any existing vxVistA 2010.1.1 or ARRA 2011.1.1 accounts</li><li>Old options named VFD ARRA EMER DEPT in REPORT renamed to VFD ARRA EDUCATION n REPORT.</li></ul>



	<ul style="list-style-type: none"> <li>• The return of immunization records was previously released with the proprietary Exchange package. It should not have been. The RPC and routine have been moved to the vxVista Open Source domain</li> <li>• &lt;UNDEF&gt; error in report when VFD IMMUNIZATION pointer in the V IMMUNIZATION file did not exist</li> <li>• HL Exchange package previously exported routine VFDZARAVVXU2 and RPC VFDH IMMUNIZATION DEMOG. The Exchange will not export these any more and will remove these components from all systems</li> <li>• ORQQPL modified to display inactive in the audit display</li> <li>• VFDCFM modified to add a new API, \$\$DATE^VFDCFM(.start,.end) to interactively prompt for a start and end date.</li> <li>• Local field RXNORM added to VA PRODUCT file.</li> <li>• New function to display FM audit data.</li> <li>• File VFD IHTSDO had a &lt;SUBSCRIPT&gt; error in the computed field in the AA index</li> <li>• VFDRPARC referenced ORVID instead of VFDPVID at COUNT+9</li> <li>• VFDPXHF1 – multiple problems, now returns correct values 0,1,2</li> <li>• DGRPD – modified to display language, time of birth, cause of death, and preliminary diagnosis for death. Only the RPC call will be affected.</li> </ul>
<b>Resolution</b>	<p>Routines Modified: VFDCFM, VFDCFM01, VFDI0003, VFDRPAR1, VFDRPAR2, VFDRPAR3, VFDRPAR4, VFDRPAR5, VFDRPAR6, VFDRPARC, VFDI0003 VFDPXIM3 VFDRPAR2, VFDRPAR3 VFDRPAR4, VFDRPAR5, VFDRPARA, VFDRPARC, VFDRPARU, VFDRPARX, ORQQPL, VFDCFM, VFDCFM01, DGRPD, VFDPXHF1, VFDRPARC, VFDRPAR1, VFDRPARA, VFDRPARU, VFDRPARX, VFDA302R, VFDI0003A</p> <p>New Options: VFD ARRA EDUCATION 1 REPORT, VFD ARRA EDUCATION 2 REPORT VFD ARRA EDUCATION 1 REPORT, VFD ARRA EDUCATION 2 REPORT, VFD ARRA MAIN MENU, VFD ARRA 170.302(r)</p> <p>RPC's Modified: VFD ARRA XML GENERATOR, VFD IMMUNIZATION REPORT, VFD ARRA XML GENERATOR</p> <p>Files Modified:</p> <p>VA Product File (#50.68) new field 21601.01</p> <p>File 21640.01 (VFD IHTSDO) – many fields and the file itself had no description</p> <p>New indexes added to the file</p> <ul style="list-style-type: none"> <li>• “C” index the file by PATIENT</li> <li>• “AOR” index the file by ORDER</li> <li>• “AA” index the file by PATIENT and then 9999999-visit_date</li> </ul>

<b>Category</b>	ARRA
<b>Problem Description</b>	Support for Preferred Language for ARRA
<b>Resolution</b>	<p>File: Language file (#.85), new field #.03 – 3 Letter Abbreviation new field #.04 – 2 Letter Abbreviation</p> <p>Language File – over 400 languages added to file</p> <p>Input Template: VFD PATIENT ALTERNATE ID (updated)</p>

<b>Category</b>	ARRA
<b>Problem Description</b>	<ul style="list-style-type: none"> <li>Emerg Department report - &lt;CMMND&gt; error fixed in EN1+2 and EN2+2 by adding a third input parameter added to the \$\$DATE call</li> <li>Emergency Department report - Line tag ERV2 - first formal parameter changed from REP to VFDREP</li> <li>VTE reports modified to prevent an &lt;UNDEF&gt; error for variable LOS</li> </ul>
<b>Resolution</b>	Routines Modified: VFDRPAR1, VFDRPARA, VFDI0003

<b>Category</b>	Visual
<b>Problem Description</b>	SSN vs. MRN display Deveteranization TIU footers
<b>Resolution</b>	Routines Modified: TIULV, TIUPRDS2, TIUPRPN2, VADPT6, VFDDFN

<b>Category</b>	Visual
<b>Problem Description</b>	Printing of pharmacy MAR labels on a Zebra printer.
<b>Resolution</b>	Routines Modified: PSGLBA, PSGLOI, PSGLPI, PSIVUDL File: OUTPATIENT SITE file (#59), new field #21600.01, LABEL NAME ABBV (1-4 chars)

<b>Category</b>	Bug
<b>Problem Description</b>	Contingency plan – M error fixed for case where a VISIT file entry does not have an associated location. Undefined error at HS+18^VFDCONT0
<b>Resolution</b>	Routines Modified: VFDCONT0, VFDCONT1

<b>Category</b>	General
<b>Problem Description</b>	<ul style="list-style-type: none"> <li>All for the linkage of the VISIT entry to the TIU Document to be done in foreground. Expected behavior for vx CPRS.</li> <li>Removed RPCs VFD TABLE IMPORT and VFD TABLE LOOKUP from the menu context.</li> </ul>
<b>Resolution</b>	Routines Modified: PXRMECLI, TIUPXAP1 Parameter Definitions: VFDV TIU-VISIT FOREGROUND, VFD VXAPP CURRENT VERSION File: VFD TABLE file (#21611) RPC's Modified: VFD TABLE GET, VFD TABLE IMPORT, VFD TABLE LOOKUP Options: VFD TABLE DELETE DATA [Delete data from VFD TABLE entry] VFD TABLE ENTER/EDIT [Enter/Edit VFD TABLE] VFD TABLE IMPORT [Import data from host file] VFD TABLE MENU [vxVista Table Management Menu] VFDVX CPRS GUI CHART VFDVX GMV V/M GUI (New) <b>NOTES:</b> <ul style="list-style-type: none"> <li>Deveteranization and TIU Footer changes could have involved the removal of references to VA, VAMC, or VA form numbers.</li> <li>SSN vs. MRN involves displaying MRN in place of SSN.</li> <li>In TIU footers, this also means that for inpatients medical center division name will print in lieu of ward/room-bed.</li> </ul>

Routine Name    SSN vs. MRN    Deveteranize    TIU Footer

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	TIULV	yes	yes	yes
	TIUPRDS2	yes	yes	yes
	TIUPRPN2	yes	yes	yes
	VADPT6	yes	no	yes
	VFDDFN	yes	no	yes

<b>Category</b>	TIU
<b>Problem Description</b>	<ul style="list-style-type: none"> <li>Some TIU electronic signature names and titles were not be filed as the modification to 4 data dictionary fields in the TIU DOCUMENT file (#8925) to all for encrypted values whose length is greater than 60 characters. This has been fixed so that all NEW signing of notes should not experience this problem.</li> <li>The printing of laboratory order sheets has been fixed to prevent the M error that was expecting a DSICDPT routine instead of the VFDCDPT routine</li> </ul>
<b>Resolution</b>	Routine Modified: VFDCDPT

<b>Category</b>	BUG
<b>Problem Description</b>	A <NO LINE> error occurred which appeared to prevent prescription orders from being completed to a Written state. ID1^VFDCDUZ now references ID1^VFDCDUZ1 instead of ID1^VFDDUZ1.
<b>Resolution</b>	Routines Modified: VFDCDUZ, VFDCDUZ1

<b>Category</b>	vxCPRS and LAB
<b>Problem Description</b>	<ul style="list-style-type: none"> <li>Lab orders for printing the generic lab order sheet and for Quest <ul style="list-style-type: none"> <li>ROUTINE VFDOR was not the correct version and was updated</li> <li>PARAMETR VFDLA QUICK ORDER DEFAULT was added</li> </ul> </li> <li>The auto-generation of MRN and SSN values upon patient record creation was invoking a routine which is not part of the Open Source stack. This code was temporarily deprecated for future review. ROUTINE VFDSSNG was updated accordingly - no functional changes</li> </ul> <p>Note: there are three Parameters associated with the generation of MRN and SSN functionality</p> <ol style="list-style-type: none"> <li>VFD AUTO GENERATE MRN</li> <li>VFD AUTO-FILE MRN TO SSN</li> <li>VFD AUTO-MRN IS DEFAULT</li> </ol>
<b>Resolution</b>	Routine Modified: VFDSSNG Parameters: VFD AUTO GENERATE MRN, VFD AUTO-FILE MRN TO SSN, VFD AUTO-MRN IS DEFAULT

<b>Category</b>	vxCPRS and Vitals
<b>Problem Description</b>	Fixed <SYNTAX> error at VISIT+34^VFDPSB2 – see SupportWorks ticket F0057531
<b>Resolution</b>	Routine Modified: VFDPSB2 New Routine: VFDGMVI New RPC: VFD GET VITALS MEASUREMENTS

<b>Category</b>	New Function
<b>Problem</b>	CPRS PCE Drawer

<b>Description</b>	
<b>Resolution</b>	Routines Modified: VFDTIUD RCS's Modified: VFD TIU PCEDRW DIS INQ Input Template: TIU DOCUMENT PARAMTER EDIT Data Dictionaries: TIY Document Parameters (#8925.95), field 21600.01

<b>Category</b>	Deveteranization
<b>Problem Description</b>	<ul style="list-style-type: none"> <li>Programmer API ID^VFDDFN. The programmer API [ID^VFDDFN] to get a patient's primary ID (SSN or MRN or another) would occasionally return an incorrect value. This was discovered during Lab testing but is not specific to Lab but applies to all of vxVista. The problem was related to the default behavior for OSHERA compliance and the value assigned to two parameters. To test this, one has to cycle through every possible combination of the two parameters VFD PATIENT ID and VFD PATIENT ID LABEL. For each iteration look at the value returned for specific patient(s).</li> <li>Lab changes for MRN vs. SSN and DOB issues. Build definition were made for OSHERA compliance, Deveteranization, MRN vs. SNN, and display of date of birth issues within the VA VistA Laboratory package. In conjunction with these changes, there were 5 OR (CPRS) routines which were also modified.</li> </ul>
<b>Resolution</b>	Routines Modified: VFDDFN, ORCSIGN, ORPR03, ORWDLR32, ORWDX, ORWRPP1 Parameters: VFD PATIENT ID and VFD PATIENT ID LABEL

<b>Category</b>	Patient File and Demographics
<b>Problem Description</b>	<ul style="list-style-type: none"> <li>API DEM^VADPT modified to return vxVista fields in the PATIENT file. A new vxVista M API (VXDEM^VFDCDPT) will also return just these vxVista field values. The M API DEM^VFDCDPT and RPC VFDC DPT GET DEMO is modified to also return these field values.</li> <li>Customer wanted the 3 county fields in the patient file to display the county name and not the 3-digit county code. Output transform modified on these three fields: <ul style="list-style-type: none"> <li>COUNTY [.117]</li> <li>TEMPORARY ADDRESS COUNTY [.12111]</li> <li>CONFIDENTIAL ADDRESS COUNTY [.14111]</li> </ul> </li> <li>The Input Template VFDPTIX on the PATIENT file was modified to remove executable M code from within the template. The update of the patient file record for deveteranization and commercial use had many fields populated with default values and also ran some M routines to do other types of updates. T30 introduced the call to ^MPIF001 to generate a local ICN if necessary. That MPIF001 call itself called ^DIE. So calling ^DIE from an Input Template caused the local symbol table to be corrupted for the FM edit logic when it left the template logic. Various &lt;UNDEF&gt; errors could occur. VFDPTIX was modified accordingly. Fortunately, the generation of the M error occurred at a point which did not leave any patient records in an incomplete state.</li> <li>Over several T# versions, how we added vxVista indexes to the PATIENT file has evolved. The main vxVista logic now is that one and only vxVista index (usually a traditional style index) be added at index number 21600 of the specific field. Whenever a new patient file record was created we have had one or more indexes fired from the .01 field. As evolution goes we ended up adding more and more</li> </ul>

	<p>things. Now there is one index on the .01 field that calls FIELDS or FIELDK of VFDPTIX. Thus any further mods to the index can be done on the routine level versus a Data Dictionary change.</p> <ul style="list-style-type: none"><li>VA File MARITAL STATUS (#11) modified. New entries added with IENS of 216xx<table><tr><th>IEN</th><th>NAME</th><th>ABBR</th><th>MARITAL STATUS CODE</th></tr><tr><td colspan="4">-----</td></tr><tr><td>21601</td><td>ANNULLED</td><td></td><td>ZA - ANNULLED</td></tr><tr><td>21602</td><td>CIVIL PARTNER</td><td>CP</td><td>ZCP - CIVIL PARTNER</td></tr><tr><td>21603</td><td>CP DISSOLVED</td><td>CPD</td><td>ZCD - DISSOLVED CP</td></tr><tr><td>21604</td><td>CP SURVIVING</td><td>CPS</td><td>ZCS - SURVIVING CP</td></tr><tr><td>21605</td><td>CIVIL UNION</td><td>CU</td><td>ZCU - CIVIL UNION</td></tr><tr><td>21606</td><td>INTERLOCUTORY</td><td></td><td>ZI - INTERLOCUTORY</td></tr></table></li><li>vxVistA added field PREFERRED LANGUAGE (#21601.02) to the Patient file (#2). When Fileman print was used to display this field, it would throw an M error. This has been fixed. There was a logic problem in the OUTPUT TRANSFORM.</li></ul>	IEN	NAME	ABBR	MARITAL STATUS CODE	-----				21601	ANNULLED		ZA - ANNULLED	21602	CIVIL PARTNER	CP	ZCP - CIVIL PARTNER	21603	CP DISSOLVED	CPD	ZCD - DISSOLVED CP	21604	CP SURVIVING	CPS	ZCS - SURVIVING CP	21605	CIVIL UNION	CU	ZCU - CIVIL UNION	21606	INTERLOCUTORY		ZI - INTERLOCUTORY
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Resolution	<p>Routines Modified: VFDPTIX, VADPT, VFDCDPT</p> <p>Data Dictionary:</p> <p>Patient (#2) - COUNTY [.117]. TEMPORARY ADDRESS COUNTY [.12111], CONFIDENTIAL ADDRESS COUNTY [.14111], PREFERRED LANGUAGE (#21601.02)</p> <p>MARITAL STATUS (#11) – Added entries</p> <p>Input Template VFDPTIX.</p> <p>RPC Modified: VFDC DPT GET DEMO</p>																																

<b>Category</b>	Pharmacy and vxCPRS
<b>Problem Description</b>	<p>SupportWorks: F0892187, F0856614, F0857071, F0892187</p> <ul style="list-style-type: none"> <li>In vxCPRS orders tab, from the menu bar selected to display Active Orders only, then those orders with a WRITTEN status would not be on the list of orders displayed. AVT1^ORQ11 modified.</li> <li>Several problems with vxVistA's auto-completion of pharmacy orders for Outpatient Pharmacy prescriptions. When a prescription was renewed, the original order still showed a status of Renewed. The status will now display Discontinued. Secondly, the copy of provider comments should now be accurately reflected in the prescription.</li> </ul>
<b>Resolution</b>	<p>Routines Modified: ORQ11, VFDPSOR, VFDPSORR</p> <p>Parameter Definition: VFD PSO PROVIDER COMMENTS</p>

<b>Category</b>	Pharmacy Labels, Deveteranization, OSEHRA Compliance
<b>Problem Description</b>	<ul style="list-style-type: none"> <li>The Rx# was over-writing the last line of the return address. The problem consisted of improper configuration and some bugs in the Outpatient Pharmacy software. The PSOLLU4 routine was modified to contain an option to make sure the Control Codes multiple in the Terminal Type entry was properly configured. VFDPSOLB was modified to display the return address phone number and pharmacist initials in multiple places instead of just one fixed place.</li> <li>To address a customers pharmacy label printing issue, a new vxVistA field is added to file 59 (#21600.02). Only the laser label outpatient pharmacy print routine has been modified to support this new local field.</li> <li>In printing MAR labels, it was possible to encounter an &lt;UNDEFINED&gt; error. This has been fixed.</li> </ul>

	<ul style="list-style-type: none"><li>• There are a dozen different PSO routines for printing the various labels. Now they want a name instead of SITE to appear on the label. Changes into OSHERA compliance and to bring the modifications to Outpatient Pharmacy routines into a standard and consistent manner over the 12 different possible label printing routines.</li><li>• Many of the previous modifications referenced a vxVistA module added to the PSOLLLH routine. For ease of OSEHRA compliance, as much as possible, vxVistA modifications have been moved to a new routine VFDPSOLB.</li></ul> <p>For the one laser label printed at a customers request, the following changes were made:</p> <ol style="list-style-type: none"><li>1. Attn: (119) changed to Pharmacy Service</li><li>2. SITE changed to use value in field 21600.01 in file 59</li><li>3. All COPAY information displayed has been removed</li><li>4. Pat. Stat section has been removed as patient status is not relevant for non-VA.</li></ol>																																																																																																									
Resolution	<p>File: Outpatient Site (#59), 2 fields 21600.01 [LABEL NAME ABBV], 21600.02 [PHARMACY NAME]</p> <p>This table indicates which pharmacy label printing routine was modified and the reason it was modified. The pharmacy ADPACs should know what setting in PSO [Outpatient Pharmacy] need to be set to exercise these routine changes. R&amp;D believes it has addressed all the routines for label printing for customer.</p> <table><tr><th>Routine</th><th>Tag</th><th>VAMC /ADDRES S</th><th>119</th><th>Pat. Stat</th><th>Copay</th><th>Other</th></tr><tr><td>PSOLBL</td><td>DQ1</td><td></td><td></td><td></td><td></td><td>Set variable VFDPSOLB</td></tr><tr><td>PSOLBL1</td><td>START</td><td>Y</td><td>Y</td><td></td><td></td><td></td></tr><tr><td>PSOLBL2</td><td>REP</td><td>Y</td><td></td><td></td><td></td><td></td></tr><tr><td>PSOLBLN</td><td>L1, L11</td><td>Y</td><td></td><td></td><td>Y</td><td></td></tr><tr><td>PSOLBLN1</td><td>START NORENW</td><td>Y</td><td></td><td>Y</td><td>Y</td><td></td></tr><tr><td>PSOLBLN2</td><td>START</td><td></td><td>Y</td><td></td><td></td><td>Printing of VA privacy notice disabled. Module NPP1 in vxVistA 2012.0</td></tr><tr><td>PSOLBLS</td><td>MAILR CHECK</td><td></td><td>Y</td><td></td><td></td><td></td></tr><tr><td>PSOLBLD</td><td>L15</td><td></td><td></td><td>Y</td><td></td><td></td></tr><tr><td>PSOLBLD1</td><td>PRINT</td><td></td><td></td><td>Y</td><td></td><td></td></tr><tr><td>PSOLLL1</td><td>L1 WARN</td><td>Y</td><td>Y</td><td></td><td></td><td></td></tr><tr><td>PSOLLL3</td><td>PF</td><td></td><td></td><td></td><td>Y</td><td></td></tr><tr><td>PSOLLL2</td><td>L12</td><td></td><td></td><td>Y</td><td></td><td></td></tr><tr><td>PSOLLL7</td><td>MAIL</td><td>Y</td><td>Y</td><td></td><td></td><td></td></tr><tr><td>PSOLLL8</td><td>START</td><td></td><td>Y</td><td></td><td></td><td></td></tr></table>	Routine	Tag	VAMC /ADDRES S	119	Pat. Stat	Copay	Other	PSOLBL	DQ1					Set variable VFDPSOLB	PSOLBL1	START	Y	Y				PSOLBL2	REP	Y					PSOLBLN	L1, L11	Y			Y		PSOLBLN1	START NORENW	Y		Y	Y		PSOLBLN2	START		Y			Printing of VA privacy notice disabled. Module NPP1 in vxVistA 2012.0	PSOLBLS	MAILR CHECK		Y				PSOLBLD	L15			Y			PSOLBLD1	PRINT			Y			PSOLLL1	L1 WARN	Y	Y				PSOLLL3	PF				Y		PSOLLL2	L12			Y			PSOLLL7	MAIL	Y	Y				PSOLLL8	START		Y			
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	PSOLLL9	START		Y			
	PSOLLLH	HDR	Y				
	PSOLLU4	VFD	Y				New option to properly comfit Term
	VFDPSVRT						MAR labels to specialty label printers
	VFDPSUTL	LBLNAME					Module removed
	VFDPSOLB						New routine – most of the PSO routines above invoke this routine
	File 59						Field 21600.01 [LABEL NAME ABBV] – no changes but documented here as the value of this field is used to be displayed instead of VAMC or SITE Field 21600.02 [PHARMACY NAME] with T32 some labels will show a complete mailing address with a longer site name.

<b>Category</b>	Problem List and vxCPRS
<b>Problem Description</b>	The RPC to return the CMS category and Resolved Status had been updated to be OSEHRA compliant.
<b>Resolution</b>	Routine Modified: ORQQPL3

<b>Category</b>	ARRA
<b>New</b>	1. PATIENT FILE DATA DICTIONARY (#2): <ul style="list-style-type: none"> <li>a. Date of Death enhancements <ul style="list-style-type: none"> <li>i. Two new local fields were added to file 2: <ul style="list-style-type: none"> <li>1. #21601.03 - PRELIMINARY CAUSE OF DEATH</li> </ul> </li> </ul> </li> </ul>

	<p>2. #21601.04 - PRELIMINARY DIAGNOSIS OF DEATH</p> <p>ii. A whole file new style Fileman cross reference (AVFDIDX) was added. The cross reference has two fields associated with it, NAME(#.01) and DATE OF DEATH (#.351). It is a M action cross reference that invokes the ^VFDPTIX routine. This routine will then perform the following functions after all the data for that edit session has been filed:</p> <ol style="list-style-type: none"> <li>1. It will create a SSN value if none exists or instructed to do so by the setting of certain Parameters.</li> <li>2. It will check to see if a IHS/PATIENT file (#9000001) record exists for this patient and if not it will create that record</li> <li>3. If the DATE OF DEATH field value is deleted, then it will delete any values that may exist in those two new fields that were added (see 1.a.)</li> </ol> <p>b. Two regular Fileman cross references will be deleted in the pre-install routine. These are the AVFDSSN and AVFDPX cross references on the NAME field (#.01).</p> <ol style="list-style-type: none"> <li>i. The M code to generate either a pseudo-SSN or a pseudo-MRN was modified to accommodate this code reorganization. However, there should be no apparent functional changes.</li> </ol> <p>2. ORDER FILE (#100) DATA DICTIONARY. The local field PERFORMING LAB (#21600.01) . This data is entered using vxCPRS and is used for both Lab Interfacing and for printing the Lab order manifest sheet for the patient.</p> <p>a. PROBLEM FILE (#9000011) DATA DICTIONARY – ARRA requires that problems be marked as resolved which is a function that the VA VistA did not support. Added the local field RESOLVED (#21600.02). This field is populated via vxCPRS. To support this new field the following routines were modified: GMPLEDT3, GMPLSAVE, GMPLUTL2, ORQQPL, ORQQPL3</p> <p>3. Added the ability of vxCPRS to edit patient allergies. Routines: VFDGMRA, VFDGMRAA RPC: VFD GMRA EDITSAVE</p> <p>4. IMMUNIZATIONS enhancements – data capture done via vxCPRS</p> <ol style="list-style-type: none"> <li>a. NEW FILE – VFD IMMUNIZATIONS (#21630.01) – the data to be populated in this file is entered via vxCPRS.</li> <li>b. New ROUTINES: VFDPXIM0, VFDPXIM1</li> <li>c. New REMOTE PROCEDURES: VFD PXIM GET ORDERABLE, VFD PXIM GET ORDERS, VFD PXIM GET LOTS, VFD PXIM STORE LOT</li> </ol> <p>5. Other ARRA enhancements to support the entering of Preliminary Cause of Death</p> <ol style="list-style-type: none"> <li>a. Routine DGDEATH was modified to present the two new fields mentioned above. This routine is invoked via the terminal OPTION: DG DEATH</li> <li>b. Input Template DGPM DISCHARGE on file 405 was modified to present those two fields when the terminal options to record patient discharge.</li> </ol> <p>6. Enhancements added to allow vxCPRS to get and retrieve HEALTH FACTOR values. Two new routines (VFDPXHF, VFDPXHF1) and 1 new RPC (VFD PXHF GET VAL).</p> <p>7. The first options involving reports required by ARRA</p> <ol style="list-style-type: none"> <li>a. Two new options to run these reports: <ol style="list-style-type: none"> <li>i. VFD ARRA 173.02(n) [Number of results by lab tests ordered]</li> <li>ii. VFD ARRA LA000 NIST 170.306g [NIST 170.306g]</li> <li>iii. Two new routines supporting these OPTIONS: VFDSTAT, VFDSTAT1</li> </ol> </li> </ol> <p>8. New computed findings for Clinical Reminders</p> <ol style="list-style-type: none"> <li>a. VFD ACTIVE MEDICATION (ONE)</li> </ol>
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	<p>b. VFD ACTIVE PROBLEM (ONE)</p> <p>c. VFD DRUG ALLERGY (ONE)</p> <p>d. VFD ENROLLMENT ADMISSION DATE/TIME</p> <p>e. VFD ENROLLMENT DISCHARGE DATE/TIME</p> <p>f. VFD INPT ADMIT DT</p> <p>g. VFD INPT DISCHARGE DT</p> <p>9. Routine changed: VFDPXRM1, VFDPXRM2</p> <p><u>The following changes and enhancements are not directly related to the work for ARRA compliance</u></p> <p><b>Printing of prescriptions</b> The local field in the NEW PERSON file to support the ASSOCIATED PROVIDER had not been exported. This multiple field is used by vxCPRS when it is necessary to print the name(s) of the physicians on RXs for staff like PAs and ARNPs. Field #21601 is exported to support this.</p> <p><b>Lab Interface and Lab Ordering</b> The RPC VFD OR REFERENCE LAB LIST and RPC VFD OR ORDER GROUP ID are now functional.</p> <p><b>Fixes for errors encountered at customer sites</b> <b>Customer</b> – occasionally an error would occur in vxCPRS. I am not sure how the user actually got there. But the source of the problem is the change in Cache. The error seen was &lt;ECODETRAP&gt;. In Cache 5.2.3 developers were allowed to set the system variable \$ECODE as allowed by ANSI-M. In Cache 2009.1 and later, a developer can still set \$ECODE but one can only set it to a value of &lt;null&gt;. This also caused the site to experience the case of PCE data not being filed. The offending code in the routine ORWRP has been commented out. <b>Customer</b> – this site had difficulty doing ADT setups as vxVistA was unable to determine the primary facility using the VistA standard API \$\$SITE^VASITE. The actual problem was in \$\$PRIM^VASITE. It only accepted a primary facility which had exactly a 3-digit Station Number. The customer set up their system assigning a 4-digit station number. \$\$PRIM was modified to allow the primary facility to have a station number which is 3 or more digits.</p>
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Category	Programmer APIs
<b>Problem Description</b>	<ul style="list-style-type: none"> <li>• New API: \$\$COUNTY^VFDCDPT</li> <li>• Some possible &lt;UNDEF&gt; errors were addressed in VFDCFM, VFDCFM01, VFDCFM06</li> <li>• Changes in VFD VXVISTA KERNEL 2011.1.1 solved the problem of the &lt;UNDEFINED&gt; variable U error in X^VFDXTX. A vxVistA modification to the %ZTMS routine was introduced prior to U and DT being defined for all sub-processes.</li> <li>• X^VFDXTX – when you tried to sign on you may get an unusual message.</li> <li>• An enhancement to X^VFDXTX was requested which was to return the value of an extrinsic function call made when invoking the SUPPORTED API call. Previously all the API could do is to determine whether or not the “SUPPORTED API” extrinsic function call was made or not. If the “SUPPORTED API” extrinsic function call sets</li> </ul>

	the variable VF DY then that value will be returned instead of 1 which indicates that the supported API was executed. If VF DY is not defined, then the previous Boolean behavior will be returned which is 1 when the supported API was executed. In addition, a new, return input parameter (passed by reference) has been added [ .VF DY]
<b>Resolution</b>	Routines Modified: VFDCDPT, VFDCDPT1, VFDCFM*, VFDCXPR*, VF DXTX File: VF D IMPLEMENTATION-SPECIFIC API (#21614), VF D SUPPORTED API(#21614.1), VF D SUPPORTED API GROU (#21614.2)

<b>Category</b>	Standardized Files and VUIDs
<b>Problem Description</b>	VUIDG^VF DHDIA was modified to generate the VUID based upon the site number rather than the Institution file pointer. No functional changes other than the actual value generated.
<b>Resolution</b>	Routine Modified: VF DHDIA

<b>Category</b>	TIU Objects
<b>Problem Description</b>	New TIU Object: Last Smoking Status. Two new routines: VFDTIU, VFDTIU1 ID^VFDDFN changed the default return value. ELMRN^VFDTIU0 updated to have the VFDDFN API return a -1^msg value instead of null.
<b>Resolution</b>	Routines Modified: VFDTIU, VFDTIU0,VFDTIU1 File: TIU DOCUMENT DEFINITION (#8925.1) – export all objects whose field OBJECT METHOD contains ^VFDTIU or ‘N VF D’

<b>Category</b>	Vitals and vx CPRS
<b>Problem Description</b>	New modification to support LMP,EDD,LEN for RPCs ORQQVI VITALS, ORQQVI NOTEVIT
<b>Resolution</b>	Routine Modified: ORQQVI RPC’s Modified: ORQQIV VITALS, ORQQVI NOTEVIT, ORQQVI VITALS FOR RANGE

<b>Category</b>	PATIENT FILE/ DEMOGRAPHICS
<b>Problem Description</b>	<ul style="list-style-type: none"> <li>API DEM^VADPT modified to return vxVistA fields in the PATIENT file. A new vxVistA M API (VXDEM^VFDCDPT) will also return just these vxVistA field values. The M API DEM^VFDCDPT and RPC VFDC DPT GET DEMO is modified to also return these field values.</li> <li>The Input Template VFDP TIX on the PATIENT file was modified to remove executable M code from within the template. The update of the patient file record for deveteranization and commercial use had many fields populated with default values and also ran some M routines to do other types of updates. Various &lt;UNDEF&gt; errors could occur. VFDP TIX was modified accordingly. The main vxVistA logic now is that one and only vxVistA index (usually a traditional style index) be added at index number 21600 of the specific field. Whenever a new patient file record was created we have had one or more indexes fired from the .01 field. As evolution goes we ended up adding more and more things. Now there is one index on the .01 field that calls FIELDS or FIELDK of VFDP TIX. Thus any further mods to the index can be done on the routine level versus a Data Dictionary change.</li> </ul> <p>Input Template VFDP TIX was newly introduced.</p>

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Resolution	<p>Routines Modified: DGRPD, VADPT, VADPT6, VFDCDPT,VFDDFN,VFDDFN01,VFDPTIX, VFDREGU</p> <p>Input Template: VFDPTIX</p> <p>RPC's Modified: VFDC DPT GET DEMO, VFD PATIENT ID, VFD PATIENT ID LABEL</p> <p>Parameter: VFD PATIENT ID, VFD PATIENT ID LABEL</p> <p>File:</p> <p>Patient File (#2) Alternate ID (DD# 2.0216), VFDR AGE (#21601), Time of Birth (#21601.01), Preferred Language(#21601.02), Preliminary Cause of Death (#21601.03), Preliminary Diagnosis of Death (#21601.04), Infectious Contact (DD# 2.021602), Patient Picture Link (#21603)</p> <table><tr><td>Marital Status (#11)</td><td>ANNULLED CIVIL PARTNER CIVIL UNION CP DISSOLVED CP SURVIVING INTERLOCUTORY</td></tr></table>	Marital Status (#11)	ANNULLED CIVIL PARTNER CIVIL UNION CP DISSOLVED CP SURVIVING INTERLOCUTORY																														
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<b>Category</b>	PHARMACY BILLING REPORT										
<b>Problem Description</b>	Pharmacy Billing Report										
<b>Resolution</b>	<p>Routines: VFDPSXBR</p> <p>Options: VFD PS BILLING REPORT</p> <p>Parameter Definitions</p> <table> <tr> <td>VFD PS BILLING REPORT DATE</td><td>Pharmacy Billing Report Start/End Dates</td></tr> <tr> <td>VFD PS BILLING REPORT DELIM</td><td>Pharmacy Billing Report Deliminator</td></tr> <tr> <td>VFD PS BILLING REPORT FOLDER</td><td>Deprecated</td></tr> <tr> <td>VFD PS BILLING REPORT HFS</td><td>Pharmacy Billing Report HFS Dir/Filename</td></tr> <tr> <td>VFD PS BILLING REPORT INCLUDE</td><td>Pharmacy Billing Report Include Patients</td></tr> </table>	VFD PS BILLING REPORT DATE	Pharmacy Billing Report Start/End Dates	VFD PS BILLING REPORT DELIM	Pharmacy Billing Report Deliminator	VFD PS BILLING REPORT FOLDER	Deprecated	VFD PS BILLING REPORT HFS	Pharmacy Billing Report HFS Dir/Filename	VFD PS BILLING REPORT INCLUDE	Pharmacy Billing Report Include Patients
VFD PS BILLING REPORT DATE	Pharmacy Billing Report Start/End Dates										
VFD PS BILLING REPORT DELIM	Pharmacy Billing Report Deliminator										
VFD PS BILLING REPORT FOLDER	Deprecated										
VFD PS BILLING REPORT HFS	Pharmacy Billing Report HFS Dir/Filename										
VFD PS BILLING REPORT INCLUDE	Pharmacy Billing Report Include Patients										

<b>Category</b>	TIU OBJECTS
<b>Problem Description</b>	ID^VFDDFN changed the default return value. ELMRN^VFDTIU0 updated to have the VFDDFN API return a -1^msg value instead of null.
<b>Resolution</b>	Routines Modified: VFDTIU, VFDTIOU0, VFDTIU1

<b>Category</b>	STANDARDIZED FILES AND VUIDS
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<b>Problem Description</b>	<p>VOIDG^VFDHDIA was modified to generate the VOID based upon the site number rather than the Institution file pointer.</p>
<b>Resolution</b>	<p>Routine Modified: VFDHDIA</p> <p>File: Data Exported with VOID&gt;999999999</p> <p>GMRV VITAL TYPE (#120.51)                      Added .01 field trigger cross reference to VOID</p> <p>GMRV VITAL QUALIFIER (#120.52)              Added .01 field trigger cross reference to VOID</p> <p>GMRV VITAL CATEGORY (#120.53)              Added .01 field trigger cross reference to VOID</p>

## vxVistA 2011.2

Date Implemented: June 11, 2013

<b>Category</b>	VXVISTA AND KERNEL
<b>Problem Description</b>	The Option VFD Stop One RPCC Broker Listener did not work due to logic error at STOPNEW+2^VFDXWBB.
<b>Resolution</b>	Routines Modified: VFDXWBB, XINDX10 XUS, ZTMS, %ZTMS

<b>Category</b>	VXVISTA FILE DDs/DATA
<b>Problem Description</b>	Not all sites had data in this file. Export the full DD with all data. At this time this file only contains 16 growth chart related entries. Fields .02 and .03 had the identifier attribute removed. The identifier code was moved to the FileMan Write Identifiers location.
<b>Resolution</b>	File: VFD Address (#21612)

<b>Category</b>	VXCPRS AND VITALS
<b>Problem Description</b>	<ul style="list-style-type: none"><li>Several vxCPRS Vitals RPC calls were not displaying the proper values for the pediatric vitals EDD, LMP, LEN.</li><li>Post-install (VFDI0003A) includes adding RPC to VFDVX VITALS menu context.</li></ul>
<b>Resolution</b>	Routine Modified: ORQQVI RPC's Modified: ORQQVI VITALS, ORQQVI NOTEVIT,ORQQVI VITALS FOR RANGE

<b>Category</b>	VXCPRS AND PROBLEM LIST
<b>Problem Description</b>	<ul style="list-style-type: none"><li>The RPC to add a problem list entry was previously corrected for bugs in VistA. The same type of bugs also existed in the RPC to update a problem. That has been fixed with the changes to the GMPLUTL routine.</li><li>Routine ORQQPL3 was modified to address the situation that the CMS problem type was not showing up in the removed problems display.</li><li>Routine GMPLHIST was modified to address vxCPRS showing UNKOWN after values for an existing problem were edited. New to this Build.</li><li>When printing a problem, the form had the phrases VAMC and VA Form. These have been removed. New to this Build. Routine GMPLPRNT modified.</li></ul>
<b>Resolution</b>	Routines Modified: GMPLHIST, GMPLPRNT,GMPLUTL, ORQQPL3

<b>Category</b>	VXCPRS AND PHARMACY
<b>Problem Description</b>	<ul style="list-style-type: none"><li>Previously the vxCPRS radio button bar for Window/Mail was hidden. This has been modified and will be displayed again with 4 buttons.</li></ul> Routine VFDPSOR was modified to handle status codes of W/C in the HL7 message from CPRS orders.
<b>Resolution</b>	Routines Modified: ORQ11, VFDPSOR, VFDPSORR Parameter Definition: VFD PSO PROCESSING OPTION, VFD PSO PROVIDER COMMENTS

<b>Category</b>	VXCPRS AND PATIENT DEMOGRAPHICS
<b>Problem Description</b>	The CPRS RPC added additional veteran specific terminology to the DG generated patient demographics report.

<b>Resolution</b>	Routine Modified: ORCXPND1
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<b>Category</b>	VXCPRS AND ORDERS
<b>Problem Description</b>	This VFDVOH utility is used by vxVistA to auto-complete pharmacy prescriptions and to enable various lab ordering and interfacing functions. The auto-complete prescriptions function previously was intended for sites which were all outpatients or all inpatients but not a mix of the two. It also expected that for all outpatient sites with this feature enabled would be for ALL prescriptions to be completed. The fix to update now allows for prescription auto-complete to work in a mixed inpatient/outpatient site. The determination as to whether pharmacy order should be handled as inpatient or outpatient is exactly the same logic as the VA pharmacy order protocol uses. The main core of that logic is in routine PSJHL4. In addition, the VFDV parameter has a new DIVISION setting where DIVISION is based upon the ordering location. So now with the parameter turned on, the outpatient pharmacy orders can be controlled at a division level instead of all-or-none as previously.
<b>Resolution</b>	<p>Routines Modified: VFDVOH, VFDVOH01, VFDVOHU, VFDVOHU1</p> <p>These routines are invoked via the VistA Protocol handler. The VFDV RECEIVE XX Protocol subscribes to the corresponding OR EVSEND XX extended action Protocol.</p> <p>Protocols vxVistA Protocols</p> <p>Entry action for all = D EN^VFDVOH(.XQORMSG,&lt;namespace like PS&gt;)</p> <p>VFDV RECEIVE DGPM</p> <p>VFDV RECEIVE FH</p> <p>VFDV RECEIVE GMRC</p> <p>VFDV RECEIVE LRAP</p> <p>VFDV RECEIVE LRBB</p> <p>VFDV RECEIVE LRCH</p> <p>VFDV RECEIVE ORG</p> <p>VFDV RECEIVE PS</p> <p>VFDV RECEIVE RA</p> <p>VistA Protocols with above subscribers</p> <p>OR EVSEND DGPM</p> <p>OR EVSEND FH</p> <p>OR EVSEND GMRC</p> <p>OR EVSEND LRAP</p> <p>OR EVSEND LRBB</p> <p>OR EVSEND LRCH</p> <p>OR EVSEND ORG</p> <p>OR EVSEND PS</p> <p>OR EVSEND RA</p> <p>Parameter Definitions: VFDVOH PSO AUTO</p>

<b>Category</b>	VXCPRS AND LAB
<b>Problem Description</b>	<ul style="list-style-type: none"> <li>• Correction made to Input pattern matching to allow long routine names.</li> <li>• Routine ORWDX had previously been modified to allow for filtering of CPRS orderable items based upon the reference lab that was going to the test.</li> </ul>

	<ul style="list-style-type: none"> <li>• The LR7OSAP routine would display lab twice on the report for some sections. This has been addressed.</li> <li>• Support for new DSS application vxLAB POC.</li> <li>• Routine ORWCV modified to support new DSS application LAB POC</li> <li>• New Parameter Definition VFD CPRS LAB SCREEN POC</li> <li>• New enhancement to detailed lab display in vxCPRS</li> <li>• Routine ORWDLR32 was modified to return a default collection type (see Parameter Definition) of WARD COLLECT to vxCPRS when the lab order is a SP or MI type. The parameter allows the site to determine the default collection type for the system or by division.</li> <li>• Enhance word wrap display in vxCPRS. Display the reference lab accession number if one is present.</li> </ul>
<b>Resolution</b>	Routines Modified: ORQ2, ORWCV, ORWDLR32, ORWDX, LR7OSAP Parameter Definitions: VFD CPRS LAB DEF COLTYP, VFD CPRS LAB SCREEN POC RPC's: ORWDLR32 LOAD File: Two fields for lab label printer were modified to allow for 16-character routine names: LABORATORY SITE (#69.9)- LAB ORDER ENTRY (#69.9008)-FLD.05 and ACCESSION (#68)-FLD5.3

<b>Category</b>	STANDARDIZED FILES AND VUIDS
<b>Problem Description</b>	VUIDG^VFDHDA fixed to always return a site number based VUID instead of always returning the last VUID+1. The LMP,EDD,LEN vital types in the GMRV VITAL TYPE file (120.51) were updated to have a DSS assigned VUID of ten digits starting with 100xxxxxxx. All 3 vital types exported.
<b>Resolution</b>	File: GMRV VITAL TYPE (#120.51)

<b>Category</b>	TIU OBJECTS
<b>Problem Description</b>	<ul style="list-style-type: none"> <li>• 2 additional TIU Objects added to the export set: ACTIVE/PENDING/EXPIRED MEDICATIONS, ACTIVE/PENDING/EXPIRED MEDICATIONS (W/O SUPPLIES)</li> <li>• Labs with critical values within the last 24 hours. By having specific lab test results with the units and reference range included in the template progress note, follow-up communication and action taken can be clearly documented.</li> <li>• TIU Object for Rx text orders changes needed to pick up NewCrop Text orders for customer and VxCPRS inside TIU notes</li> </ul>
<b>Resolution</b>	Routines Modified: VFDTIU, VFDTIOU0, VFDTIU1 Files: TIU DOCUMENT DEFINITION (#8925.1) Export all objects whose fields OBJECT METHOD contains ^VFDTIU or N VFD

<b>Category</b>	PHARMACY BILLING REPORT
<b>Problem Description</b>	<ul style="list-style-type: none"> <li>• A logic error under rare circumstances fixed, minor restructuring for more maintainable support.</li> <li>• When run from scheduled task mode, the delimiter value was an alpha character when it should have been "^" or "," or &lt;tab&gt;</li> </ul>
<b>Resolution</b>	Routine Modified: VFDPSXBR

<b>Category</b>	PCE AND VISITS
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<b>Problem Description</b>	For TTU we fixed the FileMan screen on the VISIT file so that ADPACs could use FileMan to look up data.
<b>Resolution</b>	Files: VISIT (#9000010)

<b>Category</b>	PATIENT FILE/ DEMOGRAPHICS
<b>Problem Description</b>	<ul style="list-style-type: none"> <li>• \$\$ID^VFDDFN did not honor the CASE input parameter. The description for the VFD PATIENT ID RPC definition was updated to reflect the current default behavior of \$\$ID^VFDDFN. Routine VFDDFN01 modified.</li> <li>• Local field 21603 VFDR AGE calls VFDREGU. This routine did not calculate adult age's right for dates just a few days before the patient's day of birth.</li> <li>• Removed some VA-specific items from the Patient Demographics display.</li> <li>• Time of Birth moved, Period of Service, Claim #, Combat Vet Status, Primary/Other Eligibilities</li> <li>• The VFD ADDRESS file DD was updated to add some Lab Interfacing specific fields</li> </ul>
<b>Resolution</b>	Routines Modified: DGRPD, VADPT, VADPT6, VFDCDPT,VFDDFN,VFDDFN01,VFDPTIX, VFDREGU Input Template: VFDPITX Remote Procedures VFDC DPT GET DEMO, VFD PATIENT ID, VFD PATIENT ID LABEL

<b>Category</b>	KIDS BUILD UTILITIES AND CHANGES
<b>Problem Description</b>	<ul style="list-style-type: none"> <li>• Changes to correct calls to line tags missing</li> <li>• NO ROUTINE errors adding back into update build.</li> <li>• Corrected XINDEX for vxVistA and OSEARA check causing invalid version on line 2.</li> <li>• \$\$VX^VFDI0000 has a new input parameter to allow for a numeric value to be returned instead of a string value. See routine for mapping of numeric values to string values.</li> <li>• Removed deprecated module TEMPCPRS from the VFDI0000 routine.</li> <li>• List of GUI menu contexts and RPCs to be added was updated in the VFDI0003A routine.</li> <li>• Structure of \$T() references in VFDI0003A redone. Can differentiate between RPCS to be added to Open Source accounts versus Supported accounts.</li> <li>• Populate the Control Codes multiple in the TERMINAL TYPE file for the entry P-HP-LASER.</li> </ul>
<b>Resolution</b>	Routines Modified: VFDI0003, VFDI0003A, VFDI0004C

<b>Category</b>	ADT (ADMISSIONS, DISCHARGE, TRANSFER)
<b>Problem Description</b>	<ul style="list-style-type: none"> <li>• When admitting a Patient the Visit record was not being created. Logic error corrections where made to VFDDGPM2.</li> <li>• This was modified to ensure that all inpatient admissions will have a corresponding VISIT file link. The way DATA2PCE^PXAPI was called sometimes would not create a VISIT file record.</li> </ul>
<b>Resolution</b>	Routines Modified: VFDDGPM, VFDDGPM0, VFDDGPM1, VFDDGPM2, VFDDGPMU, VSITPUT1 Protocols: VFD DGPM ADMIT/VISIT EVENT Input Template: DGPM ADMIT



<b>Category</b>	Kernel
<b>Problem Description</b>	The Option VFD Stop One RPC Broker Listener did not work due to logic error at STOPNEW+2^VFDXWBB.
<b>Resolution</b>	Routine Modified: VFDXWBB, XUS, ZTMS, %ZTMS

## vxVistA 2011.1.3

Date Implemented: August 14, 2013

<b>Category</b>	vxVitals
<b>Problem Description</b>	Prior to this patch, if more than one measurement existed for the same patient by same vital by same vitals taken time, the RPC returned only the first measurement. This patch revises the RPC to loop on the IEN subscript. As modified it now returns all qualifying measurements of the same vital type by time taken and patient. Request #: vx1
<b>Resolution</b>	Routine Modified: VFDGMVI

<b>Category</b>	Kernel
<b>Problem Description</b>	The ^rhBlowfish global was observed to grow excessively at customer sites, causing the cache.dat file to expand at an alarming rate. This patch modifies the ^rhBlowfish routine to eliminate the use of the ^rhBlowfish global. Since it is no longer needed, the patch also removes the ^rhBlowfish global. This corrects one of the causes of excessive database growth at customer sites. Request #: vx2
<b>Resolution</b>	Routines Modified: VFDZBFSH, VFDIBFSH

<b>Category</b>	IT Tools
<b>Problem Description</b>	This patch allows authorized IT staff user to remove old Access/Verify Codes and create new or reused a previous Access/Verify codes Request #: vx6
<b>Resolution</b>	Routines: VFDXTCAC Option: VFD IT EDIT ACCESS CODE Security Key: VFD IT EDIT ACCESS CODE

<b>Category</b>	CPT/LEX Codes
<b>Problem Description</b>	QA identified a lookup failure in the remote procedure ORWPCE LEX for a new 2013 CPT code. This patch fixes the lookup to accommodate the 2013 CPT codes. Request #: vx12
<b>Resolution</b>	Routine Modified: ICPTCOD

<b>Category</b>	vxCPRS, Lab, TIU Notes
<b>Problem Description</b>	Want the ability to incorporate medications, labs, and vital sign information into progress note. Request #: PRO-07
<b>Resolution</b>	<ul style="list-style-type: none"><li>Two new data objects were created to capture critical lab data (in the last 24 hours) and all lab data for the past week (excluding MI &amp; AP) into a TIU Note.</li><li>Fixed issues with the data object LABS - LAST 7 DAYS (EXCLUDE MI &amp; AP) to show ALL lab results instead of just critical results.</li><li>Fixed issues with the data object LABS - LAST 7 DAYS (EXCLUDE MI &amp; AP) to show ALL lab results instead of just critical results</li></ul> Routines Modified: VFDTIU, VFDTIU1

	TIU DOCUMENT DEFINITIONS: CRITICAL LABS (LAST 24 HOURS), LABS - LAST 7 DAYS (EXCLUDE MI & AP)
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<b>Category</b>	vx CPRS Reports
<b>Problem Description</b>	<p># CPRS964 - When viewing the "Medication Reconciliation" health summary on the Reports tab, the formatting of the text was incorrect. When viewing the "Medication Reconciliation" health summary on the Reports tab, there are unwanted VA references.</p> <p>#: CPRS948 - The Health Summary Medication Worksheet has a reference to VA in the body of the report and also contains a reference to Non-VA, which should be Meds from Elsewhere-OTC.</p> <p>#: CPRS815 - When attempting to place an Non-VA "ACTIVE" medication on hold a message is received stating "Non-VA Med orders cannot be held!" The message contains references to the VA. Correct the verbiage and remove NON-VA reference.</p> <p>#: CPRS957 - When the provider attempts to copy an existing Meds/OTC from Elsewhere order to a new order verbiage includes references to the VA.</p> <p>#: CPRS958 - After creating a Meds/OTC from Elsewhere order without signing the order but clicking Action-Change Release Event a message is shown in a pop-up dialog window stating "Non-VA Meds orders do not support this action."</p>
<b>Resolution</b>	Routines Modified: ORCACT0, ORCACT01, PSOQMCAL, PSOQUAP2

<b>Category</b>	ARRA
<b>Problem Description</b>	#: vx19 Need to have a way to document if a SNOMED code deals with a procedure or a diagnosis. If it is a procedure, then the quantity needs to be recorded. If it is a diagnosis, then it needs to be recorded if it is a primary or secondary diagnosis.
<b>Resolution</b>	<p>Data Dictionary:</p> <p>VFD IHTSDO (#21640.01)</p> <p>.12 PRIMARY/SECONDARY</p> <p>.16 QUANTITY</p>

<b>Category</b>	IT Tools
<b>Problem Description</b>	#vx15 - VFD IT TOOLS bug fix and modified the routine that checks the input transform for the build file.
<b>Resolution</b>	Routines Modified: VFDI000V, VFDXTRU1

## All VA Modified Components

Files		
TIU DOCUMENTATION DEFINITIONS (#8925.1)		Protocols
VA PRODUCT (#50.68)		DGPM MOVEMENT EVENTS
PATIENT file (#2)		
ORDER FILE (#100)		Input Template
PROBLEM FILE (#9000011)		TIU DOCUMENT PARAMTER EDIT
Terminal Type (#3.2)		DGPM ADMIT
CPT MODIFIER (#81.3)		
MARITAL STATUS (#11)		RPC's
Outpatient Site (#59)		ORQQIV VITALS
OE/RR REPORT (#101.24)		ORQQVI NOTEVIT
ORDER DIALOG (#101.41)		ORQQVI VITALS FOR RANGE
GMRV VITAL TYPE (#120.51)		ORWDLR32 LOAD
GMRV VITAL QUALIFIER (#120.52)		
GMRV VITAL CATEGORY (#120.53)		Options
HEALTH SUMMARY COMPONENT (#142.1)		DG DEATH
Laboratory Site (#69.9)		
ACCESSION (#68)		
VISIT (#9000010)		

Routine
DGDEATH
DGPMV
DGPMX1
DGPMX11
DGPMX12
DGPMX13
DGPMX14
DGPMX3
DGPMX31
DGPMX32
DGPMXX
DGPMXX1
DGPMXX2
DGPTX1
DGPTX11
DGPTX12
DGPTX13
DGPTX14
DGPTX15
DGPTX16
DGPTX17
DGPTX18
DGPTX19
DGRPD
DGRPD1
DGSEC4
DINIT011
DIQ
DITR
DPTLK
DPTLK2
DVBHCE
DVBHCE1
DVBHCE10
DVBHCE11
DVBHCE12
DVBHCE13
DVBHCE14
DVBHCE15

Routine
DVBHCE16
DVBHCE17
DVBHCE18
DVBHCE19
DVBHCE2
DVBHCE20
DVBHCE21
DVBHCE22
DVBHCE23
DVBHCE24
DVBHCE25
DVBHCE26
DVBHCE27
DVBHCE28
DVBHCE29
DVBHCE3
DVBHCE30
DVBHCE31
DVBHCE32
DVBHCE33
DVBHCE4
DVBHCE5
DVBHCE6
DVBHCE7
DVBHCE8
DVBHCE9
GMPLEDT3
GMPLHIST
GMPLPRNT
GMPLSAVE
GMPLUTL
GMPLUTL1
GMPLUTL2
GMTSPXFP
GMVDCAV
GMVGETD1
GMVGETD2
GMVGGR1
GMVGGR2

Routine
GMVLAT0
GMVRPCM
GMVSAS0
GMVUTL8
IBCNBEE
ICPTCOD
LA7SMB
LA7SMP
LA7SMP0
LA7UTILC
LA7VHLU1
LA7VHLU6
LA7VHLU7
LA7VHLU9
LA7VIN1
LA7VIN4
LA7VIN5
LA7VIN5A
LA7VORC
LA7VORM1
LA7VORM2
LA7VORM3
LR7OB1
LR7OB63C
LR7OGMP
LR7OSAP
LR7OSMZU
LR7OU1
LRCE
LRCENDEL
LRDCOM
LROE
LROE1
LRRP5
LRRP5A
LSORA2
LSORC1A
LSORD1A
LRTSTJAM

Routine
LRTSTOUT
LRUER
LRUPT
LRUTIL
LRUTIL1
LRUTIL2
LRUTIL3
LRVER
LRVER4
LRWRKIN1
LRWRKS2
LRX
NVSDPS
NVSMMP
NVSPDS
NVSPDS1
NVSPDS2
NVSPDS3
NVSPDS4
NVSPDS5
NVSPDS6
NVSPDSU
NVSPDSU1
NVSTAR
NVSTAR0
NVSTAR1
NVSTAR2
NVSTAR3
NVSTAR4
NVSTAR5
NVSTAR6
NVSTAR7
NVSTAR8
NVSTARH
NVSZDSS0
NVSZDSS1
ORCACT0
ORCACT01
ORCSAVE2

Routine
ORCSIGN
ORCXPND1
ORD2
ORD21
ORD210
ORD211
ORD212
ORD213
ORD214
ORD22
ORD23
ORD24
ORD25
ORD26
ORD27
ORD28
ORD29
ORMTIM01
ORPR03
ORQ11
ORQ12
ORQ2
ORQ21
ORQPT2
ORQQPL
ORQQPL1
ORQQPL3
ORQQVI
ORWCV
ORWDLR32
ORWDX
ORWDX1
ORWDXM1
ORWDXR
ORWOR
ORWPCE1
ORWPCE3
ORWRP
ORWRPP1
PSBO

Routine
PSBOHDR
PSBRPC
PSGLBA
PSGLOI
PSGLPI
PSGMMAR0
PSGMMAR2
PSIVUDL
PSJAC
PSJHL10
PSOHCSUM
PSOHLEXP
PSOLBL
PSOLBL1
PSOLBL2
PSOLBLD
PSOLBLD1
PSOLBLN
PSOLBLN1
PSOLBLN2
PSOLBLS
PSOLLL1
PSOLLL2
PSOLLL3
PSOLLL7
PSOLLL8
PSOLLL9
PSOLLLH
PSOLLU4
PSOMHV1
PSOORRL
PSOORRLN
PSOORRLO
PSOQ0496
PSOQMCAL
PSOQUAP2
PSOSD1
PSOSD2
PSOSD3
PSOSDP

Routine
PXAI
PXBGPRV
PXKENC
PXKMAIN
PXP119I
PXRMECLI
SISFIND
SISFINDG
SISFINDP
SISFINDR
SISP1
TIULV
TIUPRDS2
TIUPRPN2
TIUPXAP1
TIUSRVLO
TIUSRVP2
TIUXRC
TIUXRC1
TIUXRC2
TIUXRC3
TIUXRC4
TIUXRC5
TIUXRC6
VADPT
VADPT6
VASITE
VSITDEF
VSITPUT1
XDRDSHOW
XINDEX
XINDEX10
XINDEX5
XINDEX6
XPAREDT1
XPDET
XPDI
XPDIL
XPDT
XPDV

Routine
XQ1
XTRMON
XUP
XUS
XUSHSHP
XWBDLOG
XWBTCPM
ZISTCP
ZOSFONT
ZOSVONT
ZTMB
ZTMS
ZTMS2