



RESOURCE AND PATIENT MANAGEMENT SYSTEM

iCare Population Management GUI

(BQI)

Technical Manual

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Preface

The purpose of this manual is to provide technical information about the iCare Population Management GUI (BQI) package. The BQI package is designed to enable clinical case managers and providers to track, monitor, administer, and report on clinical care delivered to patients.

1.0 Introduction

The iCare Population Management GUI (BQI) software is a component of the Indian Health Service (IHS) Resource and Patient Management System (RPMS) that provides case management functions. Case management provides a mechanism to inform healthcare providers about single or multiple disease states and conditions and to follow up clinical interventions. These applications can assist healthcare providers in identifying high-risk patients, tracking care reminders and the health status of individuals or populations, providing appropriate care by embedding evidence-based guidelines, and reporting outcomes. Appropriate case management improves the delivery of care, as well as the outcome. In addition, there are documented fiscal benefits when appropriate case management is introduced into the healthcare business process model.

This manual provides IHS site managers with a technical description of the BQI routines, files, menus, cross references, globals, and other necessary information required to effectively manage the iCare Population Management GUI system.

All routines, files, options, and keys are namespaced starting with the letters BQI. The file number range for this package is 90505–90509.99.

2.0 Orientation

The iCare package has no RPMS menu options for users. The only RPMS preparation specifically needed to run iCare is to install the Kernel Installation and Distribution System (KIDS) package, assign the appropriate Remote Procedure Call (RPC) menu option to users, and set up the appropriate background jobs. The rest of the package is run on the personal computer (PC) client and can be managed from there. See the Installation Guide for details on server and client installation and configuration.

Interaction between iCare and the RPMS system is accomplished entirely through the use of RPCs. All RPCs in this package begin with the namespace letters BQI.

3.0 Implementation and Maintenance

The iCare system is designed to work with RPMS through a Windows® Graphical User Interface (GUI) application.

3.1 General Information

The following table shows the prerequisite patch requirements.

Package and Version	Associated Patch Designation(s)	Brief Patch Description
ICARE MANAGEMENT SYSTEM 2.2	BQI*2.2*1	iCARE Version 2.2 Patch 1
BMXNET ADO.NET DATA PROVIDER	BMX 4.0	BMXNET Version 4.0
IHS CLINICAL REPORTING	IHS CLINICAL REPORTING 12.0	IHS CLINICAL REPORTING V 12.0

3.2 System Requirements

The following table shows the versions of other packages that should be installed for iCare to work properly.

Module	Minimum Version	Recommended Version
VA FileMan (DI)	v22.0 Patch 1003	
VA Kernel (XU)	v8.0 Patch 1015	
BMXNet (BMX)	v4.0	v4.0 Patch 2
IHS/VA Utilities (XB)	v3.0 through Patch 11	
Patient Information Management System (PIMS)	v5.3 through Patch 1012	
IHS Clinical Reporting (BGP)	v12.0	
PCC Data Entry (APCD)	v2.0 through Patch 10	
PCC Health Summary (APCH)	v2.0 through Patch 17	
Q-Man (AMQQ)	v2.0 through Patch 21	
Taxonomy (ATX)	v5.1 through Patch 10	
HIV Management System (BKM)	v2.1	v2.1 Patch 2
IHS Asthma Register (BAT)	v1.0	
IHS PCC Suite (BJPC)	v2.0 Patch 6	v2.0 Patch 7
Referred Care Info System (BMC)	v4.0 Patch 5	

Module	Minimum Version	Recommended Version
Patient Registration (AG)	v7.1 Patch 10	
Immunization (BI)	v8.4 Patch 2	v8.5 Patch 1

3.3 Package-wide Variables

There are no package-wide BQI variables in RPMS.

3.4 Security Keys

Users already having keys AMHZ SUICIDE FORM ENTRY and/or APCDZ SUICIDE FORMS will be assumed to have access to view suicide forms in iCare.

These are the security keys which govern iCare that can be assigned to users.

Key Name	Description
BQIZCMED	This key should be assigned to those users of the iCare system who should be allowed to edit care management data. This includes editing existing RPMS register data.
BQIZMGR	This security key should only be assigned to those persons who will manage the iCare system. It should not be given to the general RPMS user population.
BQIZTXED	This key should be assigned to the small group of iCare users who are allowed to add and delete entries from site-specified taxonomies, such as Lab and Medication. It should not be given to the general RPMS user population.
BQIZMUMGR	This key should be assigned to the person who has been designated as the Meaningful Use Coordinator.
BQIZIPCMGR	This key should be assigned to the person who has been designated as the Improving Patient Care Collaborative (IPC) Coordinator.
BQIZEMPHLTH	This key allows users to create and view an Employee Health Panel to monitor certain information about employees. Because of the sensitivity of the data, it should not be given to the general RPMS user population.

4.0 Menu Diagram

There are no RPMS menus in the BQI system. Client menus are discussed in detail in the BQI User Manual.

5.0 Routine

5.1 Routine List

This routine list does not include all iCare routines just the routines being released in this version.

BQI23POS	BQI23PRE	BQI23PU	BQICAEP1	BQICAEP2	BQICAEXP
BQICAHLO	BQICALRT	BQICAPT	BQICASPL	BQICAUTL	BQICEVW
BQICMHLP	BQICMLST	BQICMUTL	BQICMVW	BQIDCAH	BQIDCAH1
BQIDCAH2	BQIDCAH3	BQIDCASN	BQIDCDF	BQIDCERA	BQIEHHP
BQIGPORD	BQIGPRA	BQIGPRA5	BQIGPUPD	BQIGPUTL	BQIGPVW
BQIHTX	BQIHTXA	BQIIPBNL	BQIIPCCP	BQIIPCGL	BQIIPCLN
BQIIPCM	BQIIPCMH	BQIIPCUT	BQIIPEMP	BQIIPMON	BQIIPOTC
BQIIPPNL	BQIIPPOR	BQIIPRA	BQIIPPRG	BQIIPPRV	BQIIPPT
BQIIPRVG	BQIIPSIT	BQIIPTBL	BQIIPTST	BQIIPTVW	BQIIPUPD
BQIIPUTL	BQILYDEF	BQILYUTL	BQIMSLST	BQIMSPL	BQIMUEXP
BQIMUFAC	BQIMUFCH	BQIMUMON	BQIMUPER	BQIMUPRH	BQIMUPRS
BQIMUPRV	BQIMURPT	BQIMUSIT	BQIMUTAB	BQIMUTIM	BQIMUTSK
BQIMUUSR	BQINIGH1	BQINIGH2	BQINIGHT	BQIPDSCF	BQIPDSCM
BQIPLCP	BQIPLCR	BQIPLDF	BQIPLDS1	BQIPLFL	BQIPLFLD
BQIPLLK	BQIPLPM	BQIPLPP	BQIPLRF	BQIPLRT	BQIPLSH
BQIPLTP	BQIPLUSR	BQIPLVEW	BQIPLVW	BQIPLVWC	BQIPLVWP
BQIPTALG	BQIPTIMP	BQIPTINS	BQIPTPNL	BQIPTREP	BQIPTRP1
BQIPTRPF	BQIPTRPU	BQIRGPL	BQIRGPT	BQIRGTHM	BQIRLB
BQIRMDR	BQIRMDR1	BQIRMP	BQIRMREG	BQISYKEY	BQISYPRM
BQISYSIT	BQITASK	BQITASK1	BQITASK2	BQITASK3	BQITASK4
BQITASK5	BQITASK6	BQITD13	BQITDPAT	BQITDTG	BQITDUTL
BQITMPLS	BQIUL1	BQIULPT	BQIULSC	BQIUTB	BQIUTB1
BQIUTB2	BQIUTB3	BQIVFCHC	BQIVFTLK		

5.2 Routines with Description

This routine list describes each routine in this version.

Routine	Description
BQI23POS	Post-installation program to set up iCare in RPMS.
BQI23PRE	Pre-installation program to clean out existing data.
BQI23PU	Post-installation job to install IPC measures.
BQICAEP1	Community Alert lab data logic.
BQICAEP2	Community Alert lab data logic.
BQICAEXP	Community Alert export program.
BQICAHLO	Community Alert HL7 segment builder.

Routine	Description
BQICALRT	Retrieve individual Community Alert data based on community and diagnostic category groupings.
BQICAPT	Community Alerts report.
BQICASPL	Community Alerts splash.
BQICASUI	Finds Community Alerts Suicidal behavior entries.
BQICAUTL	Utility program to prevent re-reporting of certain CDC NND alerts.
BQICEVW	Builds CMET views.
BQICMHLP	Gets Care Management help text.
BQICMLST	Builds list of Care Mgmt measures to display.
BQICMUTL	Care Mgmt Utility program.
BQICMVW	Builds Care Mgmt tab view.
BQIDCAH	Ad hoc panel definition search program.
BQIDCAH1	Continuation program for BQIDCAH.
BQIDCAH2	Continuation program for BQIDCAH.
BQIDCAH3	Continuation program for BQIDCAH.
BQIDCASN	Finds all patients who are assigned to designated providers/case managers.
BQIDCDF	Retrieves a predefined panel definition.
BQIDCERA	Calculates emergency room flags.
BQIEHHLF	Employee Health Glossary.
BQIGPORD	Group Order Entry program.
BQIGPRA	Includes BQI GET GPRA Aggregate RPC, which retrieves National Measures aggregate information for a panel.
BQIGPUPD	Update iCare with new National Measures settings.
BQIGPUTL	Program containing National Measures utilities and function calls.
BQIGPVW	Program to retrieve or set the National Measures Customized View for a panel.
BQIHTX	Taxonomy program created by ^ATXSTX.
BQIHTXA	Taxonomy program created by ^ATXSTX.
BQIIPBNL	Generic IPC Bundle Logic program
BQIIPCCP	Calculates value for Continuity of Care Provider measure.
BQIIPCGL	IPC Glossary.
BQIIPCLN	Manages the IPC primary care clinics.
BQIIPCM	Returns the monthly aggregated data for providers and for the facility.
BQIIPCMH	Builds the IPC monthly export data.
BQIIPCUT	IPC Utility Program for IPC choices.
BQIPEMP	Calculates value for the % Patients Empanelled measure.
BQIIPMON	IPC Monthly calculation program.

Routine	Description
BQIIPOTC	Calculates the Outcome Bundle Measure values.
BQIIPPNL	Aggregates Provider IPC measures by panel.
BQIIPPOR	Program to retrieve the IPC portal address.
BQIIPPRA	Aggregates the monthly IPC provider data by Microsystem providers.
BQIIPPRG	Program that calculates the ER/Urgent Care visits and total patients in microsystem.
BQIIPPRV	Retrieves the data for the IPC Panel Detail tab.
BQIIPPT	Retrieves the data for the IPC Patient Detail tab.
BQIIPRVG	Calculates value for the Revenue Generated measure.
BQIIPSIT	Program to manage the IPC Site Parameters.
BQIIPTBL	Program that manages IPC tables.
BQIIPTST	Special routine for IPC beta testing.
BQIIPTVW	Program that manages the IPC User Preferences.
BQIIPUPD	Program to manage IPC version updates.
BQIIPUTL	IPC Utility program.
BQILYDEF	Program that addresses default layouts, a feature which will be included in a future version of iCare.
BQILYUTL	Program that includes layout template utilities.
BQIMSLST	Program to retrieve layout fields as defined in File 90506.1.
BQIMSPL	Program to retrieve "My Measures" data for a panel.
BQIMUEXP	Program to export MU CQ data.
BQIMUFAC	Program to retrieve Facility Performance data.
BQIMUFCH	Program to retrieve Facility Performance hover help.
BQIMUMON	Program that calculates MU CQ data monthly.
BQIMUPER	Retrieves the MU CQ dates that have calculated.
BQIMUPRH	Program to retrieve Provider Performance hover help.
BQIMUPRS	Program to calculate a single provider's clinical quality measures.
BQIMUPRV	Program to retrieve the Provider Performance data.
BQIMURUN	Program to retrieve the dates that the MU ran.
BQIMURPT	Program to run the MU Provider CQ report.
BQIMUTAB	Program to retrieve meaningful use table data.
BQIMUTIM	Finds MU CQ period based on starting month/year and which timeframe.
BQIMUTSK	Checks on MU Provide CQ report status in TaskMan.
BQIMUUSR	Program to manage MU User Preferences.
BQINIGH1	Continuation program of the nightly job.
BQINIGH2	Continuation program for the nightly job.

Routine	Description
BQINIGHT	Nightly job to update flags, National Measures, diagnosis categories, and reminders.
BQIPDSCF	Program to determine panel description.
BQIPDSCM	Program to format Panel Generated Description.
BQIPLCP	Program to copy panels from one to another.
BQIPLCR	Program to create and update panel definitions.
BQIPLDF	Program to retrieve a panel definition.
BQIPLDS1	Continuation of the program to generate a panel description based upon defined parameters.
BQIPLFL	Program to set a panel's filter definitions.
BQIPLFLD	Program to manage panel categories.
BQIPLPP	Program to populate a panel based upon the definition and the parameters.
BQIPLLK	Program to lock or unlock a panel.
BQIPLPM	Program to get or update a panel's parameters.
BQIPLPP	Program to populate a panel based upon the definition and the parameters.
BQIPLRF	Program to auto-refresh panels.
BQIPLRT	Program to return a list of panels by user.
BQIPLSH	Program to updated shared users.
BQIPLTP	Program to manage reassign panel functions.
BQIPLUSR	Program to get or update a user's preferences.
BQIPLVEW	Program to get all views for a panel.
BQIPLVW	Program to get a list of panel's default view fields.
BQIPLVWC	Program to get or update a user's customized view.
BQIPLVWP	Program to retrieve patient list based upon customized or default view.
BQIPTALG	Program to retrieve all allergies for a patient.
BQIPTIMP	Program to display patient immunization profile.
BQIPTINS	Retrieve patient insurance information.
BQIPTREP	Program to retrieve patient's reproductive factors.
BQIPTRP1	Program for patient's reproductive factors.
BQIPTRPF	Build reproductive factor grid.
BQIPTRPU	Program to update reproductive factors.
BQIRGPL	Program that returns register data for a panel or list of patients.
BQIRGPT	Program that returns register data for a specific patient.
BQIRGTHM	Program that returns proposed data values for HMS.
BQIRMDR	Program to identify active reminders for patients and update ^BQIPAT with this information.
BQIRMDR1	Continuation program for active patient reminders.

Routine	Description
BQIRMPPL	Program that retrieves the reminders for all of the patients in a specified panel.
BQIRMREG	Program that returns register reminder data for a specific panel.
BQISYKEY	Program that manages iCare security keys.
BQISYPRM	Program that manages iCare Site parameters.
BQISYSIT	Program that returns background job status as well as iCare site parameters. Additional remote procedure to retrieve the current status of a patch is included here as well.
BQITASK	Scheduled Task Program for ICARE GPRA UPDATE.
BQITASK1	Scheduled Task Program for the Reminders update.
BQITASK5	Scheduled Task Program for meaningful use clinical quality calculations.
BQITASK6	Scheduled Task Program for meaningful use clinical quality monthly calculations.
BQITD13	Program to calculate Pregnancy Tag patients.
BQITDPAT	Program to calculate all diagnosis categories for a single patient.
BQITDTG	Program that includes two entry points: one to update a specific tag for a patient and a second updates a tag across the population. Both take into account any hierarchical dependencies.
BQITDUTL	Program that contains utilities that support the diagnostic tag process.
BQITMPLS	Program that manages template lists.
BQIUL1	Program that contains miscellaneous iCare utilities.
BQIUTB	Utility program to retrieve table values for iCare.
BQIULPT	Miscellaneous patient utilities program.
BQIULSC	Utility program for security.
BQIUTB	Utility program to retrieve table values for iCare.
BQIUTB1	Additional table retrieval program.
BQIUTB2	Program to get the list of reminders and V files.
BQIUTB3	Program to retrieve the taxonomy list associated with a type of taxonomy/International Statistical Classification of Diseases (ICD) Diagnosis, Medication, Current Procedural Terminology (CPT), etc.).
BQIVFCHC	Program that retrieves a list of choices for a specified file and field within PCC.
BQIVFTLK	Looks up value for specified field and returns identifying information for V file entry.

5.3 Function List

5.3.1 \$\$AGE^BQIAGE

This program is copied from the computed AGE field (2,.033) that calculates the age of a person based on the DOB (2,.03) and either the current date (DT) or the date of death (DOD) (2,.351). The computed AGE has been modified to use another date passed into this function instead of just the previous two dates, DT and DOD (i.e., age as of the date passed). A qualifier may also be passed indicating that years (YRS), days (DYS), and months (MOS) should be returned.

- Input Parameter Description:
 - D0: Patient IEN
 - PDATE: Other date to compare against patient's DOB
 - QUAL: Include qualifier (YRS, DYS, MOS)
- Output Description:
 - Patient's age

5.3.2 \$\$MEAS^BQICAUTL

This program finds a measurement result value which meets a certain criteria for the same date as a visit record for a specific patient. For example, looking for a temperature greater than 100 for a patient on a certain visit date.

- Input Parameter Description:
 - BQDFN: Patient Internal Entry Number
 - MEAS: Measurement from the MEASUREMENT TYPE file #9999999.07
 - VISIT: Visit Internal Entry Number
 - RESVAL: Result Value
 - OPER: Operand used to evaluate the result value for the visit
- Output Description:
 - 1 ^ Visit date ^ Result Value ^ Visit internal entry number ^ Measurement Record IEN ^ associated V Measurement file # (9000010.01)

5.3.3 \$\$TAX^BQICAUTL

This program determines if the patient has an entry that matches the criteria supplied to the function call.

- Input Parameter Description:
 - TMFRAME: Time frame to search for data

- TAX: Taxonomy
- NIT: Number of iterations
- PTDFN: Patient IEN
- FREF: File number reference
- PRB: If Active Problem okay
- SAME: If NIT is allowed for the same day or not (1 equals same day okay)
- Output Description:
 - 1 ^ Visit date ^ ^ Visit or Problem internal entry number ^ associated V file internal entry number

5.3.4 \$\$VAL^BQICAVW

This function finds the values of a community alert.

- Input Parameter Description:
 - NDUZ: User
 - NDCN: IEN of the alert
- Output Description:
 - Returns the status and time frame associated with the community alert

5.3.5 \$\$CDEF^BQICEVW

This function returns the Care Management source default fields.

- Input Parameter Description: N/A but assumes the value of CARE is defined.
CARE: The value of a View Source entry
- Output Description:
Returns a list of codes of data elements that can be viewed

5.3.6 \$\$DFNC^BQICEVW

This function returns the standard display order for a Care Management source.

- Input Parameter Description: N/A but assumes the value of CARE is defined.
CARE: The value of a View Source entry
- Output Description:
Returns a list of codes of data elements that can be viewed

5.3.7 \$\$\$FNC^BQICEVW

This function returns the standard sort order for a Care Management source.

- Input Parameter Description: N/A but assumes the value of CARE is defined.
CARE: The value of a View Source entry
- Output Description:
Returns a list of codes of data elements that can be viewed

5.3.8 \$\$NRPC^BQICMDNM

This function returns the denominator as a flag for the Care Management type passed when using a non-RPC call.

- Input Parameter Description:
 - DFN: Patient's DFN
 - CARE: Care Management entry—either name or IEN can be passed
- Output Description:
 - Returns a '1' if the patient meets the denominator for the Care Management type passed to this function call

5.3.9 \$\$FND^BQICMUTL

This function determines what logic to pass to \$\$ITM^BQICMUTL to return the last entry for a specific data element for a specified Care Management source.

- Input Parameter Description:
 - CRN - Care Mgmt Source IEN
 - COLN - Column IEN
 - BQDFN - Patient IEN
- Output Description:
 - Returns the information about the most recent result value as 1 ^ Visit date ^ ^ Visit internal entry number ^ associated V file internal entry number ^ Result Value ^ “refusal” (if applicable)

5.3.10 \$\$FTAG^BQICMUTL

This function determines what logic to pass to \$\$ITM^BQICMUTL to return the last entry for a specific data element for a specified Diagnostic Tag.

- Input Parameter Description:

- TGN - Dx Tag IEN
- COLN - Column IEN
- BQDFN - Patient IEN
- Output Description:
 - Returns the information about the most recent result value as 1 ^ Visit date ^ ^ Visit internal entry number ^ associated V file internal entry number ^ Result Value ^ “refusal” (if applicable)

5.3.11 \$\$ITM^BQICMUTL

This function contains the logic to find the most recent visit for a request item and is called by \$\$FND^BQICMUTL.

- Input Parameter Description:
 - TMFRAME - Time frame to search data for
 - BQDFN - Patient internal entry number
 - FREF - File to search in
 - RREF - Search file table file
 - TIEN - Item to search on
 - TAX - Taxonomy name
- Output Description:
 - Returns the information about the most recent result value as 1 ^ Visit date ^ ^ Visit internal entry number ^ associated V file internal entry number ^ Result Value ^ “refusal” (if applicable)

5.3.12 \$\$CDEF^BQICMVW

This function returns the Care Management source default fields.

- Input Parameter Description:
 - N/A
- Output Description:
 - Returns a string of required and default fields delimited by \$C(29). All optional fields are excluded.

5.3.13 \$\$CVW^BQICMVW

This function returns the customized Care Management view for a panel.

- Input Parameter Description:

CARE: The value of a View Source entry

- Output Description:
Returns a list of codes of data elements that were customized

5.3.14 \$\$DFNC^BQICMVW

This function returns the standard display fields for the Care Management view.

- Input Parameter Description:
 - N/A
- Output Description:
 - Returns a string of required and default fields delimited by \$C(29). All optional fields are excluded

5.3.15 \$\$\$FNC^BQICMVW

This function returns the standard sort order for the Care Management view.

- Input Parameter Description:
 - N/A
- Output Description:
 - Returns a string of required and default fields delimited by \$C(29). All optional fields are excluded

5.3.16 \$\$FILN^BQIDCDF

This function returns the file number associated with a parameter of a predefined panel.

- Input Parameter Description:
 - SOURCE: Predefined panel name
 - PNAME: Parameter name
- Output Description:
 - Returns the table file number

5.3.17 \$\$MPF^BQIDCDF

This function returns the mapping flag for a data element that is “mapped”.

- Input Parameter Description:

- SOURCE: Predefined panel name
- PNAME: Parameter name
- Output Description:
 - Returns 1:Yes, maps to another parameter OR 0:No, doesn't map to another parameter

5.3.18 \$\$MPN^BQIDCDF

This function returns the map parameter name for a data element that is “mapped”.

- Input Parameter Description:
 - SOURCE: Predefined panel name
 - PNAME: Parameter name
- Output Description:
 - For example: RFROM and RTHRU are mapped to RANGE

5.3.19 \$\$PEXE^BQIDCDF

This function returns the special executable code that creates the generated description for the parameter.

- Input Parameter Description:
 - SOURCE: Predefined panel name
 - PNAME: Parameter name
- Output Description:
 - Standard MUMPS code

5.3.20 \$\$PMAP^BQIDCDF

This function returns the MAP TO parameter name.

- Input Parameter Description:
 - SOURCE: Predefined panel name
 - PNAME: Parameter name
- Output Description:
 - For example: RFROM and RTHRU are mapped to RANGE

5.3.21 \$\$PORD^BQIDCDF

This function returns the parameter DESCRIPTION ORDER.

- Input Parameter Description:

- SOURCE: Predefined panel name
- PNAME: Parameter name
- Output Description:
 - Numeric value

5.3.22 \$\$PP^BQIDCDF

This function returns the IEN of a predefined panel.

- Input Parameter Description:
 - SOURCE: Predefined panel name
- Output Description:
 - Returns the predefined panel IEN

5.3.23 \$\$PTYP^BQIDCDF

This function returns the parameter type associated with a parameter of a predefined panel ('D' for Date; 'R' for Relative Date; 'N' for Numeric; 'T' for Table; 'C' for Choice; 'X' for Text).

- Input Parameter Description:
 - SOURCE: Predefined panel name
 - PNAME: Parameter name
- Output Description:
 - Returns the parameter type

5.3.24 \$\$FPAT^BQIFLAG

This function checks if the patient has an active flag for the user and the user preferences.

- Input Parameter Description:
 - PDFN: Patient's DFN
 - OWNR: DUZ of panel's owner
 - BQIPREF: Array of owner's preferences
 - TYPE: 'A'll, 'S'hown, or 'H'idden
- Output Description:
 - QFLG: Returns '1' if patient has an active flag

5.3.25 \$\$HME^BQIGPUTL

Returns home site from the BGP SITE PARAMETERS file.

- Input Parameter Description:
 - N/A
- Output Description:
 - BHOME: Returns the site (pointer to LOCATION FILE, #9999999.06)

5.3.26 \$\$LKP^BQIGPUTL

Returns the internal entry number in the ICARE SITE PARAMETERS file associated with the identified GPRA year.

- Input Parameter Description:
 - BQIGYR: The GPRA year, e.g. 2006
- Output Description:
 - Returns the IEN associated with BQIGYR

5.3.27 \$\$MEAS^BQIGPUTL

This function returns the reverse direction value for a CRS measure. Normal or blank is 'NO' is bad (red). If reverse, then 'NO' is good (green).

- Input Parameter Description:
 - GCODE – The CRS measure code which is CRS year_IEN
- Output Description:
 - Returns the 'R' for reverse or blank

5.3.28 \$\$SPM^BQIGPUTL

Returns the IEN within the ICARE SITE PARAMETERS file.

- Input Parameter Description:
 - N/A
- Output Description:
 - Returns the IEN associated with ICARE SITE PARAMETERS file (#90508)

5.3.29 \$\$CVW^BQIGPVW

Returns the customized view for National Measures using mnemonics to identify the associated field.

- Input Parameter Description:

- N/A
- Output Description:
 - Returns the field IEN, the template name (if exists), the definition (if exists), the type which is ‘G’, DISPLAY which is a string of mnemonics identifying the display order sub-delimited by \$C(29), SORT which is a string of mnemonics identifying the sort order and SDIR which is a string of mnemonics identifying the sort direction

5.3.30 \$\$DFNC^BQIGPVW

Returns the standard display order for National Measures using mnemonics to identify the associated field.

- Input Parameter Description:
 - N/A
- Output Description:
 - DVALUE: String of mnemonics identifying the display order sub-delimited by \$C(29)

5.3.31 \$\$GDEF^BQIGPVW

Returns the default National GPRA fields.

- Input Parameter Description:
 - N/A
- Output Description:
 - GVALUE: String of codes identifying the specific GPRA field delimited by \$C(29)

5.3.32 \$\$SFNC^BQIGPVW

Returns the standard National Measures sort order using mnemonics to identify the associated field.

- Input Parameter Description:
 - N/A
- Output Description:
 - SVALUE: String of mnemonics identifying the standard sort order sub-delimited by \$C(29)

5.3.33 \$\$PAT^BQIIPBNL

This function returns the “met” value of an IPC ‘bundle’ for a patient.

- Input Parameter Description:
 - DFN – Patient internal entry number
 - XX – Array of bundle CRS measures
- Output Description:
 - Returns ‘NO’, ‘YES’, or ‘N/A’ (NDA counts as ‘NO’)

5.3.34 \$\$OPAT^BQIIPOTC

This function returns the “met” value for the IPC Outcome Bundle for a patient.

- Input Parameter Description:
 - DFN – Patient internal entry number
 - CRN – Internal entry number of the Outcome Bundle measure
 - Output Description:
 - Returns ‘NO’, ‘YES’, or ‘N/A’ (NDA counts as ‘NO’) or ‘{D}’ for deceased
- \$\$PAT^BQIIPOTC

This function determines if patient meets one of the Outcome bundle criteria.

- Input Parameter Description:
 - DFN – Patient internal entry number
 - CRN – Internal entry number of the Outcome Bundle measure
 - CODE – which of the Outcome bundle items; “IPC_DMCTRL” or “IPC_LDCTRL” or “IPC_BPCTRL”
- Output Description:
 - Returns ‘NO’, ‘YES’, or ‘N/A’ (NDA counts as ‘NO’) or ‘{D}’ for deceased

5.3.35 \$\$TPN^BQILYUTL

This function returns the IEN for the provided external template name.

- Input Parameter Description:
 - OWNR: The owner of the template
 - TEMPL: The template name (ex. “Patient List Default”)
- Output Description:
 - The IEN of the template

5.3.36 \$\$CSTA^BQIPLRF

This function returns the current auto-populate status value.

- Input Parameter Description:

- USR: Owner internal entry number
- PLIEN: Panel internal entry number
- Output Description:
 - Returns the status: 1:Currently Running; 2:Pending; or null if completed

5.3.37 \$\$LCK^BQIPLRF

This function tries to lock a panel.

- Input Parameter Description:
 - USR: Owner internal entry number
 - PLIEN: Panel internal entry number
- Output Description:
 - Returns a '1' if it was able to lock the panel
 - Returns a '0' in the first piece and the user internal entry number and name of the user who currently has the panel locked in the second and third pieces, respectively

5.3.38 \$\$CVW^BQIPLRVW

This function returns the customized view for reminders for a panel.

- Input Parameter Description:
 - N/A but assumes user (DUZ, Owner and Panel IEN).
- Output Description:
 - Returns the field IEN, the template name (if exists), the definition (if exists), the type which is 'G', DISPLAY which is a string of mnemonics identifying the display order sub-delimited by \$C(29), SORT which is a string of mnemonics identifying the sort order and SDIR which is a string of mnemonics identifying the sort direction.

5.3.39 \$\$CKSHR^BQIPLSH

This function checks the write status of a shared user.

- Input Parameter Description:
 - OWNR: Owner IEN
 - PLIEN: Panel IEN
- Output Description:
 - Returns '1' if it is okay to write to the panel; '0' if it is not okay to write to the panel.

5.3.40 \$\$OWNER^BQIPLUSR

This function checks to see if the user who has signed into iCare is already in the ICARE USER File (#90505) and, if not, it creates an entry for this user.

- Input Parameter Description:
 - USR: User's internal entry number
- Output Description:
 - Returns '1' if user already exists in iCare or if the user was successfully added to iCare; '0' if there was an error adding the user to iCare

5.3.41 \$\$CPFL^BQIPLUTL

This function determines if the passed owner and panel contain a panel filter value and, if so, it attempts to lock those panels.

- Input Parameter Description:
 - OWNER: Owner internal entry number
 - PLIEN: Panel internal entry number
- Output Description:
 - Returns a '1' if it was able to lock the panel; if unsuccessful, it returns the panel filter information and the name of who has the record locked (if available)

5.3.42 \$\$DFNC^BQIPLVW

Returns the standard display order using mnemonics to identify the associated field.

- Input Parameter Description:
 - N/A
- Output Description:
 - DVALUE: String of mnemonics identifying the display order subdelimited by \$C(29).

5.3.43 \$\$SFNC^BQIPLVW

Returns the standard sort order using mnemonics to identify the associated field.

- Input Parameter Description:
 - N/A
- Output Description:
 - SVALUE: String of mnemonics identifying the standard sort order subdelimited by \$C(29).

5.3.44 \$\$CVW^BQIPLVWC

This function returns the customized view for a panel.

- Input Parameter Description:
 - N/A but assumes user (DUZ, Owner and Panel IEN).
- Output Description:
 - Returns the field IEN, the template name (if exists), the definition (if exists), the type which is 'G', DISPLAY which is a string of mnemonics identifying the display order sub-delimited by \$C(29), SORT which is a string of mnemonics identifying the sort order and SDIR which is a string of mnemonics identifying the sort direction.

5.3.45 \$\$ETHN^BQIPTDMG

Returns the ethnicity of a patient.

- Input Parameter Description:
 - DFN - Patient IEN
 - FLD – Field in multiple to retrieve from
- Output Description:

Returns the ethnicity IEN_\$C(28)_ethnic name

5.3.46 \$\$RCE^BQIPTDMG

Returns the race of a patient.

- Input Parameter Description:
 - DFN - Patient IEN
 - FLD – Field in multiple to retrieve from
- Output Description:

Returns the race IEN_\$C(28)_racial name

5.3.47 \$\$IMM^BQIREM

This function returns the immunization due/last information for immunization reminders.

- Input Parameter Description:
 - IDFN: Patient internal entry number
 - IMIEN: Immunization internal entry number
- Output Description:

- Returns the RECOMMENDED DATE DUE (9002084.1,.04) and DATE PAST DUE (9002084.1,.05) fields from the BI PATIENT IMMUNIZATIONS DUE FILE for display in the Reminders section of iCare

5.3.48 \$\$RDEF^BQIRMPL

Returns the reminders default

- Input Parameter Description:
 - N/A
- Output Description:
 - String of mnemonics identifying the fields.

5.3.49 \$\$FIND^BQISCHEd

Returns the IEN for an option.

- Input Parameter Description:
 - X: Option name, for example "BQI UPDATE TASK."
- Output Description:
 - X: The IEN of the option.

5.3.50 \$\$OBMI^BQITBMI

This function calculates the BMI (Body Mass Index) for a specific patient and associated date range and returns the BMI, patient's age, and the height and weight visit internal entry numbers used to calculate the BMI.

- Input Parameter Description:
 - BDFN: Patient IEN
 - TMFRAME: Time frame in relative date format
- Output Description:

Returns the patient's BMI, age, height visit IEN and weight visit IEN

5.3.51 \$\$EPG^BQITD13

Determines if a pregnancy has ended.

- Input Parameter Description:
 - DFN: Patient IEN
- Output Description:

'0' if no ending of the pregnancy is found in RPMS or '1' if a value indicating that the pregnancy has ended is found

5.3.52 \$\$ATAG^BQITDUTL

Determines if a particular Diagnostic tag is active for a patient

- Input Parameter Description:
 - RDFN: Patient IEN
 - RTAG: Diagnostic internal entry number
- Output Description:
 - Returns the current status and associated effective date for the tag

5.3.53 \$\$CMP^BQITDUTL

Determines if the Diagnostic tag requested for the patient is active for that patient

- Input Parameter Description:
 - DFN: Patient IEN
 - TAG: Diagnostic tag internal entry number
- Output Description:
 - Returns a '1' if the patient has the tag and it is active

5.3.54 \$\$CTAG^BQITDUTL

Find the current status of a Diagnostic tag.

- Input Parameter Description:
 - DFN: Patient IEN
 - TAG: Diagnostic tag internal entry number
- Output Description:
 - Returns the status of the tag; 'P'ending, 'A'ccepted, etc.

5.3.55 \$\$REG^BQITDUTL

Returns the register status of a patient.

- Input Parameter Description:
 - DFN: Patient IEN
 - TAG: Diagnostic tag internal entry number
- Output Description:
 - Returns the status of '1' if patient has an active status in the register and '0' if not active

5.3.56 \$\$LAB^BQITRUTL

Checks for a laboratory test result with the designated value or range of values.

- Input Parameter Description:
 - TMFRAME: Time frame used to search data
 - RECENT: 1 = Only check most recent lab; 0 = Check all within time frame
 - BQDFN: Patient internal entry number
 - TAX: Laboratory taxonomy to search
 - RESULT: Laboratory result to check for
 - OPER: Operand to use for result check
 - RES2: If range, the other result value
 - OPER2: If range, the other result operand
- Output Description:
 - 1 ^ Visit date ^ lab result ^ Visit internal entry number ^ V LAB internal entry number

5.3.57 \$\$TAX^BQITRUTL

This function determines if the patient has an entry that matches the criteria supplied.

- Input Parameter Description:
 - TMFRAME: Time frame to search for data
 - TAX: Taxonomy
 - NIT: Number of iterations
 - PTDFN: Patient IEN
 - FREF: File number reference
 - PRB: If Active Problem okay
 - SAME: If NIT is allowed for the same day or not (1 equals same day okay)
- Output Description:
 - 1 ^ Visit date ^ ^ Visit or Problem internal entry number ^ associated V file internal entry number

5.3.58 \$\$GDXN^BQITUTL

Gets IEN of a Diagnosis Category definition

- Input Parameter Description:
 - DEF: Diagnosis Category definition name
- Output Description:

- Returns the internal entry number of the category definition

5.3.59 \$\$PLID^BQIUG1

Returns a unique identifier for the panel using the following algorithm: OWNER_IEN concatenated with the PANEL_IEN padded out to four digits with leading zeroes.

- Input Parameter Description:
 - OWNR: Owner IEN
 - PLIEN: Panel IEN
- Output Description:
 - PLID: Unique Panel identifier

5.3.60 \$\$CTRL^BQIUL1

This function strips any non-alphanumeric or punctuation characters out of a given string.

- Input Parameter Description:
 - X: The string to be reviewed
- Output Description:
 - The string with any non-alphanumeric or punctuation characters removed

5.3.61 \$\$DATE^BQIUL1

Converts standard date/time to a FileMan date/time.

- Input Parameter Description:
 - DATE: Date/time in standard format
- Output Description:
 - Returns the date/time in FileMan format or a null if it was unsuccessful

5.3.62 \$\$FMTE^BQIUL1

Converts FileMan Date/Time to 'MMM DD,CCYY HH:MM:SS' format.

- Input Parameter Description:
 - Y: FileMan date/time (e.g. 3051024.123456)
- Output Description:
 - Returns the Date/Time in External format (e.g. OCT 24,2005 12:34:56)

5.3.63 \$\$FMTMDY^BQIUL1

Converts FileMan date to MM/DD/YYYY format.

- Input Parameter Description:
 - DATE: Date in FileMan format
- Output Description:
 - Returns the date in MM/DD/YYYY format

5.3.64 \$\$HRN^BQIUL1

Checks to see if patient has any active Health Record Numbers (HRNs).

- Input Parameter Description:
 - BQIDFN: Patient IEN
- Output Description:
 - Returns a '1' if the patient has at least one active HRN

5.3.65 \$\$PROB^BQIUL1

Returns the date and time of the problem. Since not all dates exist or are required data entry, the hierarchy is 'DATE ENTERED', and then 'DATE LAST MODIFIED'.

- Input Parameter Description:
 - PIEN: IEN of problem
- Output Description:
 - Returns the problem date in FileMan format

5.3.66 \$\$STRIP^BQIUL1

Removes one or more trailing characters at the end of a string.

- Input Parameter Description:
 - STR: String of data
 - VAL: Delimiter character
- Output Description:
 - Returns the string without the trailing characters

5.3.67 \$\$TKO^BQIUL1

Takes off the ending character at the end of a string.

- Input Parameter Description:

- STR: String of data
- VAL: Character to be removed
- Output Description:
 - STR: Same STR without the trailing character(s)

5.3.68 \$\$TRIM^BQIUL1

Removes one or more leading characters in a string.

- Input Parameter Description:
 - STR: String of data
 - VAL: Character to be removed from the string
- Output Description:
 - Returns the same string of data without the leading character(s)

5.3.69 \$\$VTHR^BQIUL1

Finds the most recent visit in the last three years for patient.

- Input Parameter Description:
 - BQIDFN: Patient IEN
- Output Description:
 - 1 ^ Visit IEN ^ Visit date

5.3.70 \$\$PTR^BQIUL2

Find a different value for a pointer other than .01.

- Input Parameter Description:
 - FIL: FileMan File Number
 - FLD: FileMan Field Number
 - VAL: Code Value
 - VPEC: Field other than .01 from which to get the data
- Output Description:
 - Returns the other value of the pointer field

5.3.71 \$\$STC^BQIUL2

Find a value for a “set of codes” code

- Input Parameter Description:

- FIL: FileMan File Number
- FLD: FileMan Field Number
- VAL: Code Value
- Output Description:
 - Returns the external value of the code

5.3.72 \$\$ICD9^BQIUL3

Return the value of the Code Set Versioning (CSV) piece of the ICD DIAGNOSIS file (#80).

- Input Parameter Description:
 - VAL: ICD DIAGNOSIS IEN
 - IDT: ICD DIAGNOSIS date
 - PC: Piece of the string returned by \$\$ICDDX^ICDCODE that is being requested
- Output Description:
 - The piece of data in the string returned by \$\$ICDDX^ICDCODE that corresponds with the data originally retrieved directly from ^ICD9

5.3.73 \$\$CALR^BQIULPT

Determines if the patient has community alerts associated with his/her community of residence.

- Input Parameter Description:
 - DFN: Patient IEN
- Output Description:
 - Returns a 'Y' if there are associated community alerts, 'N' if there are none

5.3.74 \$\$COUN^BQIULPT

This function returns the county of the patient's current community.

- Input Parameter Description:
 - DFN: Patient IEN
- Output Description:
 - Returns the county name

5.3.75 \$\$DPCP^BQIULPT

Retrieves the patient's designated primary care provider's name. The function checks the Designated Provider Management System first for the patient's primary care provider; otherwise, it uses the Primary Care Provider field in the patient's file.

- Input Parameter Description:
 - DFN: Patient internal entry number
- Output Description:

Returns the internal entry number and the provider name associated with the patient's primary care provider

5.3.76 \$\$FLG^BQIULPT

Obtains flag indicator for a specific user and panel.

- Input Parameter Description:
 - USR: User IEN
 - PANEL: Panel IEN
 - DFN: Patient IEN
- Output Description:
 - FLG: Returns a 'Y' if the patient has an active flag

5.3.77 \$\$HRNL^BQIULPT

Gets a patient's HRNs

- Input Parameter Description:
 - DFN: Patient internal entry number
- Output Description:
 - Returns a list of HRNs (HRN – location abbreviation) for the patient; a leading asterisk indicates that the HRN is inactive

5.3.78 \$\$LVDPCP^BQIULPT

This function returns the last visit that the patient had with their DPCP.

- Input Parameter Description:
 - DFN: Patient internal entry number
- Output Description:
 - Returns the date of the visit

5.3.79 \$\$LVDT^BQIULPT

This function returns the patient's last visit date/time with anyone.

- Input Parameter Description:
 - DFN: Patient internal entry number
- Output Description:
 - Returns the date of the visit

5.3.80 \$\$MFLAG^BQIULPT

If the patient was manually added to a panel, returns the current manual flag status.

- Input Parameter Description:
 - USR: User IEN
 - PANEL: Panel IEN
 - DFN: Patient IEN
- Output Description:
 - Returns an 'A' if the patient was manually added, an 'R' if the patient was manually remove or a blank if the patient was automatically added to the panel based on the associated criteria

5.3.81 \$\$NAD^BQIULPT

Finds patient's next appointment date

- Input Parameter Description:
 - DFN: Patient internal entry number
- Output Description:
 - Returns the patient's next appointment date (in calendar date format), or null if there are no future appointments

5.3.82 \$\$SENS^BQIULPT

Checks to see if patient is designated as Sensitive and returns a flag (Y or N) to indicate if the patient is Sensitive.

- Input Parameter Description:
 - DFN: Patient IEN
- Output Description:
 - FLAG: Returns a 'Y' if the patient is sensitive, an 'N' if not

5.3.83 \$\$KEYCHK^BQIULSC

Checks to see if the security key was assigned to the user

- Input Parameter Description:
 - KEY: Security key — If security key is not numeric, it is assumed that the security key was passed by name.
 - USER: User internal entry number
- Output Description:
 - Returns a '1' if the security key is assigned to the user, or a '0' if not

6.0 Files and Tables

6.1 File List

The following table contains a list of new files.

File #	Filename	Description
90506.8	ICARE IPC CATEGORIES	This file contains a list of categories used in the IPC tab.
90508.1	ICARE USER TEMPLATES	This file contains layout templates uploaded for use by any iCare user.

6.2 File Access

The following table contains the FileMan access to new files.

File #	Filename	GL	RD	WR	LYG	DD	DEL
90506.8	ICARE IPC CATEGORIES	^BQI(90506.8,	@	@	@	@	@
90508.1	ICARE USER TEMPLATES	^BQI(90508.1,	@	@	@	@	@

6.3 Cross References

90506.8 (iCare IPC Categories)

.01 Name

B Regular type cross reference

.04 SUBTO

AC Regular type cross reference

90508.1 (iCare User Templates)

.01 Name

B Regular type cross reference

6.4 Table File

File: 90506.8 iCare IPC Categories

Global: ^BQI(90506.8,

Field #	Field Name	Subscript	Piece	Type
.01	NAME	D0,0	1	P
.02	INACTIVE?	"	2	S
.03	TYPE	"	3	S
.04	SUBTO	"	4	P

File: 90508.1 iCare User Templates

Global: ^BQI(90508.1,

Field #	Field Name	Subscript	Piece	Type
.01	NAME	D0,0	1	F
.02	TYPE	"	2	P
.03	TEMPLATE NAME	"	3	F
.04	LAST EDIT DATE	"	4	D
.05	TEMPLATE AUTHOR	"	5	P
.06	TEMPLATE UPLOAD DATE	"	6	D
10	FIELD (90508.11)	D0,10,D1,0	10	
.01	FIELD	"	1	F
.02	DISPLAY ORDER	"	2	N
.03	SORT ORDER	"	3	N
.04	SORT DIRECTION	"	4	S
.05	COLUMN SIZE	"	5	N

6.5 Callable Routines

The following table lists the remote procedures added in this release and the associated tag and routine called by the remote procedure. These tags and routines are considered callable entry points, but are only available through the GUI interface.

Name	Tag	Routine
BQI CHECK VERIFY CODE	VLDPSW	BQIULSC

Name	Tag	Routine
BQI CHK SCR MAMM STS	MACT	BQIGPORD
BQI DELETE PUBLIC TEMPLATE	DEL	BQITMPLS
BQI DOWNLOAD TEMPLATE	DNLOAD	BQITMPLS
BQI GET EMP HEALTH GLOSSARY	GLS	BQIEHHLP
BQI GET GRP ORD PARM	GORD	BQISYPRM
BQI GET INACTIVE TIMEOUT	GINTT	BQISYPRM
BQI GET IPC CHOICE	LIST	BQIIPCUT
BQI GET IPC CLINICS	EN	BQIIPCLN
BQI GET IPC DATES	DTE	BQIIPBL
BQI GET IPC FAC MONTHLY	FAC	BQIIPCM
BQI GET IPC GLOSSARY	GLS	BQIIPCGL
BQI GET IPC MEASURES	ITM	BQIIPBL
BQI GET IPC MICRO PROV	PRV	BQIIPSIT
BQI GET IPC MON PROV AGG	EN	BQIIPPRA
BQI GET IPC PATIENT DETAIL	EN	BQIIPPT
BQI GET IPC PORTAL	EN	BQIIPPOR
BQI GET IPC PREFS	RET	BQIIPVW
BQI GET IPC PROV AGG	EN	BQIIPNL
BQI GET IPC PROV DETAIL	EN	BQIIPPRV
BQI GET IPC PROV MON EXPORT	RET	BQIIPCMH
BQI GET IPC PROV MONTHLY	RET	BQIIPCM
BQI GET IPC SITE PARMS	GET	BQIIPSIT
BQI GET LIST EMPLOYERS	EN	BQISYPRM
BQI GET MU PREFS	RET	BQIMUUSR
BQI GET MU REPORT STATUS	STAT	BQIMUTSK
BQI GET PANEL CATEGORIES	GET	BQIPLFLD
BQI GET PATIENT CON METH	CMETH	BQIPTRP1
BQI GET PREG PARMS	GPP	BQISYPRM

Name	Tag	Routine
BQI GET SHUTDOWN TIMEOUT	GSHUTT	BQISYPRM
BQI GET TAXONOMIES	EN	BQIUTB3
BQI GET TEAM MEMBERS	TMM	BQIIPBTL
BQI GET TEMPLATE LIST	LIST	BQITMPLS
BQI GET TEMPLATE USE	TMUSE	BQILYDEF
BQI GET WARNING TIMEOUT	GWARNT	BQISYPRM
BQI GROUP ORDER ENTRY	ORD	BQIGPORD
BQI LOCK ICARE USER	ULK	BQIPLLK
BQI MU GET MU PERIODS	GET	BQIMUPER
BQI PATIENT REPRODUCTIVE FACS	REP	BQIPTRP1
BQI PROV CQ MEAS REPORT	EN	BQIMURPT
BQI REP FAC INIT TRIG	INIT	BQIPTRPU
BQI REP FAC PRG TRIG	TRGPRG	BQIPTRP1
BQI SET GRP ORD PARM	UORD	BQISYPRM
BQI SET INACTIVE TIMEOUT	INACTT	BQISYPRM
BQI SET IPC PREFS	UPD	BQIIPVW
BQI SET IPC SITE PARMS	UPD	BQIIPSIT
BQI SET MU PREFS	UPD	BQIMUUSR
BQI SET PANEL CATEGORIES	UPD	BQIPLFLD
BQI SET PREG PARMS	UPGP	BQISYPRM
BQI SET SHUTDOWN TIMEOUT	SHUTT	BQISYPRM
BQI SET TEMPLATE DFLT	DFLT	BQILYDEF
BQI SET WARNING TIMEOUT	WARNT	BQISYPRM
BQI TEMPLATE UPLOAD	UPLOAD	BQITMPLS
BQI UNLOCK ICARE USER	UULK	BQIPLLK
BQI UPD PAT CMETH	UPDCM	BQIPTRP1
BQI UPDATE IPC CLINICS	UPD	BQIIPCLN
BQI UPDATE IPC MICRO PROV	UPP	BQIIPSIT
BQI UPDATE LIST EMPLOYERS	UPD	BQISYPRM

Name	Tag	Routine
BQI VIEW PUBLIC TEMPLATE	VIEW	BQITMPLS

6.6 Published Entry Points

There are no published entry points for this version of iCare.

7.0 Internal Relations

All functions within this application work independently.

There are no documented internal relations in BQI

8.0 External Relations

8.1 External Calls

iCare Population Management GUI

Routine	is Invoked by:
^%DT	BQIDCERA,BQIUL1, dd90505, dd90505.01, dd90505.012 dd90505.015, dd90505.03, dd90505.04, dd90505.12 dd90505.152, dd90505.16, dd90505.17, dd90505.4 dd90505.431, dd90505.441, dd90505.45, dd90505.46 dd90505.6, dd90505.631, dd90505.64 dd90505.66, dd90506.1, dd90508, dd90508.01, dd90508.019 dd90508.1, dd90508.223
COMMA^%DTC	BQIIPCM,BQIIPRA
\$\$DEFDIR^%ZISH	BQIUL1
\$\$DEL^%ZISH	BQIUL1
\$\$PWD^%ZISH	BQIUL1
CLOSE^%ZISH	BQIUL1
OPEN^%ZISH	BQIUL1
^%ZTER	BQICAPT,BQICASPL,BQICEVW,BQICMLST,BQICMVW,BQIDCDF BQIEHHLR,BQIGPORD,BQIGPRA,BQIGPVW,BQIIPCGL,BQIIPCLN BQIIPCM,BQIIPCMH,BQIIPCUT,BQIIPPNL,BQIIPPOR,BQIIPRA BQIIPPRV,BQIIPPT,BQIIPVW,BQIIPVW,BQIPLYDEF,BQIMSLST BQIMSPL,BQIMUFAC,BQIMUFCH BQIMUPRH,BQIMUPRV,BQIMURPT,BQIMUTAB,BQIMUUSR,BQIPLCP BQIPLCR,BQIPLDF,BQIPLFL,BQIPLFLD,BQIPLLK,BQIPLPM,BQIPLPP BQIPLRF,BQIPLRT,BQIPLSH,BQIPLTP,BQIPLUSR,BQIPLVEW BQIPLVW,BQIPLVWC,BQIPLVWP,BQIPTALG,BQIPTINS,BQIPTREP BQIPTRP1,BQIPTRPF BQIPTRPU,BQIRGPL,BQIRGPT,BQIRGTHM,BQIRMDR,BQIRMP BQIRMREG,BQISYKEY,BQISYPRM,BQISYSIT,BQITDPAT,BQITMPLS BQIULSC,BQIUTB,BQIUTB1,BQIVFCHC,BQIVFTLK BQIGPUPD,BQIMUMON,BQINIGHT,BQIRMDR,BQITASK5,BQITASK6
^%ZTLOAD	BQI23POS
DESC^%ZTLOAD	BQI23POS
ISQED^%ZTLOAD	BQI23POS
KILL^%ZTLOAD	BQI23POS
OPTION^%ZTLOAD	BQI23POS
PCLEAR^%ZTLOAD	BQI23POS
STAT^%ZTLOAD	BQI23POS,BQIMUTSK,BQINIGHT
^APCDRF	BQIPTRPU
\$\$RFADD^APCDRF	BQIPTRPU
RHEDIT^APCDRF	BQIPTRPU
\$\$GVHMR^APCHSMU	BQIRMDR
\$\$PNM^APCLSIL1	BQITD13
\$\$DEMO^APCLUTL	BQIPEMP
\$\$CLINIC^APCLV	BQIPEMP
\$\$PRIMPROV^APCLV	BQIIPCCP,BQIPEMP
BULL^ATXSTX2	BQIHTXA
KILL^ATXSTX2	BQIHTXA
TAX^ATXSTX2	BQIHTXA
\$\$COMMRES^AUPNPAT	BQICAEXP
\$\$HRN^AUPNPAT	BQICAEXP
FHCHK^AUPNSICD	BQINIGH1
^AUPNVMS2	BQINIGH1
\$\$UIDV^AUPNVISIT	BQICAEXP
COMPUTE^BARDRST	BQIIPRVG
ALLDP^BDPAPI	BQIULPT

DETAIL^BEHOCACV	BQIPTALG
GRPORD^BEHOOGP	BQIGPORD
\$\$GETNAME^BEHOPTP2	BQIPDSCM
PLSTLST^BEHOPTP2	BQIUTB2
BQI^BGPMUEHD	BQITASK5 , BQITASK6
BQI^BGPMUEPD	BQIMUPRS , BQIMURPT
IMMPROF^BIRPC	BQIPTIMP
\$\$BKMIEB^BKMIXX3	BQIRGTHM
\$\$BKMREG^BKMIXX3	BQIRGTHM
LDREC^BKMVA1B	BQIRGTHM
EVENT^BMXMEVN	BQIPLRF
GETFCRS^BMXRPC3	BQITASK1
^BQI23PU	BQI23POS
\$\$AGE^BQIAGE	BQICAEXP , BQIDCAH1 , BQIPTREP , BQIPTRP1 , BQIPTRPF , BQIRMDR BQIRMDR1
LB^BQICAEP1	BQICAEP2
^BQICAEXP	BQINIGH2
^BQICAHLO	BQICAEXP
^BQICALRT	BQINIGH2
FND^BQICASPL	BQIULPT
^BQICASUI	BQINIGH2
\$\$MEAS^BQICAUTL	BQICAEP2
\$\$TAX^BQICAUTL	BQICALRT
\$\$VAL^BQICAVW	BQICAPT , BQICASPL
\$\$CDEF^BQICEVW	BQILYDEF , BQITMPLS
\$\$DFNC^BQICEVW	BQILYDEF , BQITMPLS
\$\$SFNC^BQICEVW	BQILYDEF , BQITMPLS
\$\$NRPC^BQICMDNM	BQIRMPL , BQIRMREG
\$\$FND^BQICMUTL	BQIRGPL
\$\$FTAG^BQICMUTL	BQIRGPL
\$\$ITM^BQICMUTL	BQICMUTL
\$\$CDEF^BQICMVW	BQILYDEF , BQITMPLS
\$\$CVW^BQICMVW	BQIPLVEW
\$\$DFNC^BQICMVW	BQILYDEF , BQITMPLS
\$\$SFNC^BQICMVW	BQILYDEF , BQITMPLS
FIL^BQICMVW	BQIPLVEW
ACHK^BQIDCAH1	BQIDCAH
BEN^BQIDCAH1	BQIDCAH
DIAG^BQIDCAH1	BQIDCAH
ALGY^BQIDCAH2	BQIDCAH
VIS^BQIDCAH2	BQIDCAH
LAB^BQIDCAH3	BQIDCAH
MED^BQIDCAH3	BQIDCAH
\$\$FILN^BQIDCDF	BQIPDSCF , BQIPDSCM , BQIPLDS1
\$\$MPF^BQIDCDF	BQIPLPM
\$\$MPN^BQIDCDF	BQIPLPM
\$\$PEXE^BQIDCDF	BQIPDSCF , BQIPDSCM
\$\$PMAP^BQIDCDF	BQIPDSCF , BQIPDSCM
\$\$PORD^BQIDCDF	BQIPDSCF
\$\$PP^BQIDCDF	BQIPDSCF , BQIPDSCM , BQIPLDS1 , BQIPLFL , BQIPLPM , BQIPLPP
\$\$PTYP^BQIDCDF	BQIPDSCF , BQIPDSCM , BQIPLDS1 , BQIPLFL , BQIPLPM , BQIPLPP
\$\$FPAT^BQIFLAG	BQIPLRT , BQIULPT
RET^BQIFLAG	BQIPLRT , BQIULPT
UPU^BQIFLAG	BQIPLCR , BQIPLSH
CNTP^BQIFLG	BQIPLCR
FND^BQIFLG	BQINIGHT
GVAL^BQIGPRA1	BQIMSPL , BQIULPT
COMP^BQIGPRA5	BQINIGHT
GCHK^BQIGPUPD	BQINIGHT , BQITASK
\$\$HME^BQIGPUTL	BQI23POS , BQIIPBNL , BQIIPCCP , BQIIPCM , BQIIPCMH , BQIIPEMP BQIIPMON , BQIIPOTC , BQIIPPRG , BQIIPRVG , BQIMUMON , BQINIGHT

\$\$LKP^BQIGPUTL	BQITASK5, BQITASK6 BQICMLST, BQIGPRA, BQIGPUPD, BQIIPPT, BQIIPPTBL, BQIIPUPD BQIMSLST, BQINIGHT, BQIULPT
\$\$MEAS^BQIGPUTL	BQIIPPTBL
\$\$SPM^BQIGPUTL	BQI23POS, BQICALRT, BQICAPT, BQICASPL, BQICMLST, BQIGPUPD BQIGPVW, BQIIPOTC, BQIIPPT, BQIIPSIT, BQIIPPTBL, BQIIPUPD BQIMSLST, BQIMUPER, BQINIGHT, BQIPLUSR, BQIPLVEW, BQISYPRM BQISYSIT, BQIULPT
GFN^BQIGPUTL	BQICMLST, BQIGPRA, BQIGPUPD, BQIIPPTBL, BQIIPUPD, BQIMSLST BQIULPT
\$\$CVW^BQIGPVW	BQIPLVEW
\$\$DFNC^BQIGPVW	BQILYDEF, BQITMPLS
\$\$GDEF^BQIGPVW	BQILYDEF, BQITMPLS
\$\$SFNC^BQIGPVW	BQILYDEF, BQITMPLS
FIL^BQIGPVW	BQIPLVEW
^BQIHTX	BQI23PU
^BQIHTXA	BQIHTX
\$\$PAT^BQIIPBNL	BQIIPPNL, BQIIPPRV, BQIIPPT
BUN^BQIIPBNL	BQIIPPNL, BQIIPPRV, BQIIPPT
EN^BQIIPMON	BQIIPPTST, BQINIGHT
\$\$OPAT^BQIIPOTC	BQIIPPNL, BQIIPPRV, BQIIPPT
\$\$PAT^BQIIPOTC	BQIIPPNL, BQIIPPRV, BQIIPPT
EN^BQIIPPTST	opt
^BQIIPUTL	BQIIPCM, BQIIPRA, BQIIPPTBL
STORF^BQIIPUTL	BQIIPBNL, BQIIPCCP, BQIIPEMP, BQIIPMON, BQIIPOTC, BQIIPPRG BQIIPRVG
STORP^BQIIPUTL	BQIIPBNL, BQIIPCCP, BQIIPMON, BQIIPOTC, BQIIPPRG, BQIIPRVG
DEF^BQILYDEF	BQICEVW, BQICMVW, BQIGPVW, BQIPLVEW, BQIPLVWC
DFLT^BQILYDEF	BQITMPLS
SAV^BQILYDEF	BQITMPLS
STND^BQILYDEF	BQIPLVEW
\$\$TPN^BQILYUTL	BQICEVW, BQICMVW, BQIGPVW, BQILYDEF, BQIPLSH, BQIPLVEW BQIPLVWC, BQIPLWVP, BQIRGPL, BQIRMP, BQITMPLS
EN^BQIMSLST	BQIUTB, BQIUTB2
EN^BQIMUEXP	BQITASK6
HOS^BQIMUEXP	BQITASK6
EN^BQIMUMON	BQI23POS, BQINIGHT
MON^BQIMUPRS	BQITASK6
NIN^BQIMUPRS	BQITASK5
PROV^BQIMUPRS	BQITASK5
NUM^BQIMUSIT	BQINIGHT
GTM^BQIMUTIM	BQIMUFAC, BQIMUFCH, BQIMUPRH, BQIMUPRV
AST^BQINIGH1	BQINIGHT
COMM^BQINIGH1	BQIUTB
FHDX^BQINIGH1	BQIUTB
MEAS^BQINIGH1	BQINIGHT
CMA^BQINIGH2	BQINIGHT
NGHT^BQINIGH2	BQINIGHT
INP^BQINIGHT	BQICALRT, BQIIPPT, BQITASK
\$\$DUP^BQINOTF	BQIRMDR
ADD^BQINOTF	BQIGPUPD, BQIPLPP, BQIPLRF, BQIRMDR
FIL^BQINOTF	BQIPLSH
UPD^BQINOTF	BQIPLCR
FILTER^BQIPDSCF	BQIPDSCM
\$\$TRUNC^BQIPDSCM	BQIPDSCF
CATIPC^BQIPDSCM	BQIPLDF
DESC^BQIPDSCM	BQI23POS, BQINIGH2, BQIPLCP, BQIPLFL, BQIPLPM, BQIPLPP BQIPLRF, BQIPLTP
MAP^BQIPDSCM	BQIPDSCF
APT^BQIPLCR	BQIPLPP
CNTP^BQIPLCR	BQIPLPP

DPT^BQIPLCR	BQIPLPP
\$\$PCAT^BQIPLDF	BQIPDSCM, BQIPLRT
LOCK^BQIPLLK	BQIPLRF
UNLOCK^BQIPLLK	BQIPLRF
POP^BQIPLPP	BQINIGH2, BQIPLRF
HDR^BQIPLPT	BQIPLVWP
\$\$CSTA^BQIPLRF	BQINIGH2
\$\$LCK^BQIPLRF	BQINIGH2
NNOTF^BQIPLRF	BQINIGH2
STA^BQIPLRF	BQINIGH2, BQIPLPP
ULK^BQIPLRF	BQINIGH2
\$\$CVW^BQIPLRVW	BQIPLVEW
FIL^BQIPLRVW	BQIPLVEW
\$\$CKSHR^BQIPLSH	BQIPLFL, BQIPLPM, BQIPLPP
\$\$OWNR^BQIPLUSR	BQIPLCP, BQIPLCR, BQIPLTP
\$\$CPFL^BQIPLUTL	BQINIGH2, BQIPLRF
CPFLU^BQIPLUTL	BQINIGH2, BQIPLRF
KXRF^BQIPLUTL	dd90505.115, dd90505.1151
PFILL^BQIPLUTL	BQINIGH2, BQIPLRF
PFILU^BQIPLUTL	BQINIGH2, BQIPLRF
SXRF^BQIPLUTL	dd90505.115, dd90505.1151
\$\$DFNC^BQIPLVW	BQILYDEF, BQIPLVWC, BQITMPLS
\$\$SFNC^BQIPLVW	BQILYDEF, BQIPLVWC, BQITMPLS
\$\$CVW^BQIPLVWC	BQIPLVEW
FIL^BQIPLVWC	BQIPLVEW
\$\$ETHN^BQIPTDMG	BQICAEXP
\$\$RCE^BQIPTDMG	BQICAEXP
REP^BQIPTRP1	BQIPTRPF
UVDEF^BQIPTRP1	BQI23POS
\$\$IMM^BQIREM	BQIRMDR
PAT^BQIRGASP	BQINIGH1
EN^BQIRGTH1	BQIRGTHM
CHK^BQIRMDR	BQINIGHT, BQITASK1
FIL^BQIRMDR	BQIRMDR1
FILE^BQIRMDR	BQIRMDR1
PAT^BQIRMDR	BQINIGHT, BQITASK1
RMR^BQIRMDR	BQITASK1
CMET^BQIRMDR1	BQIRMDR
CMT^BQIRMDR1	BQIRMDR
EHR^BQIRMDR1	BQIRMDR
EMR^BQIRMDR1	BQIRMDR
REA^BQIRMDR1	BQIRMDR
REG^BQIRMDR1	BQIRMDR, BQITASK1
\$\$RDEF^BQIRMPL	BQILYDEF, BQITMPLS
EN^BQIRSPR	BQIVFTLK
\$\$FIND^BQISCHED	BQI23POS, BQISYSIT, BQITASK5
DEL^BQITASK	BQITASK
FIL^BQITASK	BQITDPAT, BQITDTG
NPT^BQITASK	BQINIGH1, BQINIGHT
DZ^BQITASK1	BQINIGHT
UPD^BQITAXX4	BQIUTB
\$\$OBMI^BQITBMI	BQICAEXP
\$\$EPG^BQITD13	BQITDUTL
CHK^BQITDPAT	BQITDTG
PAT^BQITDPAT	BQINIGHT
EN^BQITDPRC	BQINIGHT, BQITASK, BQITDUTL
MOV^BQITDPRC	BQITDUTL
\$\$ATAG^BQITDUTL	BQIIPOTC
\$\$CMP^BQITDUTL	BQITASK
\$\$CTAG^BQITDUTL	BQIRGPL
\$\$REG^BQITDUTL	BQITASK

NCR^BQITDUTL	BQITASK, BQITDPAT, BQITDTG
DTMPDEF^BQITMPLS	BQILYDEF
DTMPSET^BQITMPLS	BQILYDEF
PAT^BQITRMT	BQINIGHT
\$\$LAB^BQITRUTL	BQICAEP1, BQICAEP2
\$\$LBB^BQITRUTL	BQICAEP1
\$\$TAX^BQITRUTL	BQICAEP1, BQICAEP2, BQITD13
\$\$GDXN^BQITUTL	BQINIGH1, BQITDTG, BQITDUTL
ARY^BQITUTL	BQITASK, BQITDTG
BLD^BQITUTL	BQICAEP1, BQICAEP2, BQICALRT, BQICAUTL, BQICMUTL, BQIDCAH3 BQITD13
\$\$PLID^BQIUG1	BQIGPRA, BQIPLCP, BQIPLCR, BQIPLDF, BQIPLRF, BQIPLRT, BQIPLUSR
\$\$CTRL^BQIUL1	BQIPTIMP
\$\$DATE^BQIUL1	BQICAEP1, BQICALRT, BQICAPT, BQICASPL, BQICAUTL, BQICMUTL BQIDCAH, BQIGPORD, BQIMUPRS, BQIMURPT, BQINIGHT, BQIPDSCF BQIPDSCM, BQIPLDS1, BQIPLFL, BQIPLPM, BQIPLPP, BQIPLSH BQIPTRP1, BQIPTRPU, BQIRMDR, BQITASK, BQITASK5, BQITASK6 BQIULPT
\$\$FMTE^BQIUL1	BQICAPT, BQICASPL, BQIIPPT, BQILYDEF, BQIMSPL, BQIMUEXP BQIMUFAC, BQIMUFCH, BQIMUMON, BQIMUPRH, BQIMUPRS, BQIMUPRV BQIMURPT, BQIMUTIM, BQIPDSCF, BQIPLDF, BQIPLFL, BQIPLPM BQIPLRT, BQIPLSH, BQIPTALG, BQIPTINS, BQIPTREP, BQIPTRP1 BQIRGPL, BQIRGTHM, BQIRMP
\$\$FMTMDY^BQIUL1	BQIRMREG, BQISYSIT, BQITMPLS, BQIULPT
\$\$HRN^BQIUL1	BQIRMP
\$\$PROB^BQIUL1	BQIDCAH, BQIDCERA, BQIIPBNL, BQIIPMON, BQIIPOTC, BQIIPRG
\$\$STRIP^BQIUL1	BQIIPRV, BQINIGH1, BQINIGHT, BQIRMDR, BQITASK, BQITASK1 BQICAUTL
\$\$TKO^BQIUL1	BQIDCAH2, BQIUTB3 BQICAEXP, BQICAPT, BQICEVW, BQICMHL, BQICMVW, BQIGPVW BQIIPCM, BQIIPCMH, BQIIPRA, BQIIPPT, BQILYDEF, BQIMSPL BQIMURPT, BQIPDSCM, BQIPLDS1, BQIPLFL, BQIPLPM, BQIPLRF BQIPLVW, BQIPLVWC, BQIPLVWP, BQIPTALG, BQIPTINS, BQIPTRPF BQIRGPL, BQIRGPT, BQIRMP, BQIRMREG BQISYKEY, BQISYSIT, BQITMPLS, BQIUL1, BQIULPT, BQIUTB2 BQIVFCHC, BQIVFTLK
\$\$TRIM^BQIUL1	BQIIPCM, BQIIPPNL, BQIIPRA, BQIIPRV, BQIMUFAC, BQIMUFCH BQIMUPRH, BQIMUPRV, BQIMURPT
\$\$VTHR^BQIUL1	BQINIGH1, BQINIGHT, BQIRMDR, BQITASK, BQITASK1
\$\$PTR^BQIUL2	BQICAEXP, BQICMUTL, BQIIPRG, BQIUTB
\$\$STC^BQIUL2	BQIRGTHM
\$\$ICD9^BQIUL3	BQICALRT
\$\$CALR^BQIULPT	BQIIPPT, BQIMSPL, BQIPLVWP, BQIRGPL, BQIRMP, BQIRMREG
\$\$COUN^BQIULPT	BQICAEXP
\$\$DPCP^BQIULPT	BQIIPPT
\$\$FLG^BQIULPT	BQIIPPT, BQIMSPL, BQIPLCR, BQIPLVWP, BQIRGPL, BQIRMP BQIRMREG
\$\$HRNL^BQIULPT	BQIIPPT
\$\$LVDPCP^BQIULPT	BQIIPPT
\$\$LVDT^BQIULPT	BQIIPPT
\$\$MFLAG^BQIULPT	BQIIPPT, BQIMSPL, BQIPLVWP, BQIRGPL, BQIRMP, BQIRMREG
\$\$NAD^BQIULPT	BQIIPPT
\$\$SENS^BQIULPT	BQIIPPT, BQIMSPL, BQIPLCR, BQIPLVWP, BQIRGPL, BQIRMP BQIRMREG
\$\$KEYCHK^BQIULSC	BQICAPT, BQICEVW, BQICMHL, BQICMLST, BQICMVW, BQIGPVW BQIMSLST, BQIMSPL, BQIPLTP, BQIPLVW, BQIPLVWC, BQIPLVWP BQIRGPL, BQIRGPT, BQIRMP, BQIRMREG, BQIUTB
FH80^BQIUTB	BQIVFTLK
FHREL^BQIUTB	BQIVFTLK
TBL^BQIUTB	BQIVFTLK
IUSR^BQIUTB1	BQIUTB

APST^BQIUTB2	BQIUTB
CLIN^BQIUTB2	BQIUTB
DPCP^BQIUTB2	BQIUTB
EPLIST^BQIUTB2	BQIUTB
FLTR^BQIUTB2	BQIUTB
IPCAT^BQIUTB2	BQIUTB
UCL^BQIUTB2	BQIUTB
VFL^BQIUTB2	BQIUTB
ALG^BQIUTB3	BQIUTB
EMP^BQIUTB3	BQIUTB
LAB^BQIUTB3	BQIUTB
MED^BQIUTB3	BQIUTB
EN^BTPWPFND	BQINIGHT
\$\$FLG^BTPWFPAT	BQIPLVWP, BQIRGPL, BQIRMP, BQIRMREG
\$\$EVT^BTPWRMDR	BQIRMDR1
EN^DDIOL	BQIIPST, dd90506.1
^DIC	BQI23POS, BQI23PU, BQICALRT, BQICEVW, BQICMVW, BQIDCDF BQIGPORD, BQIGPUPD, BQIGPUTL, BQIGPVW, BQIIPMON, BQIIPRVG BQIIPTVW, BQIIPUPD, BQIIPUTL, BQILYDEF, BQILYUTL, BQIMUMON BQIMUPRS, BQIMUUSR, BQIPDSCF, BQIPLCR, BQIPLDS1, BQIPLFLD BQIPLUSR, BQIPLVEW, BQIPLVWC BQIRMDR, BQISYKEY, BQISYPRM, BQITASK, BQITASK6, BQITMPLS BQIUL1, dd90506.24, dd90506.38, dd90508.014
\$\$FIND1^DIC	BQI23POS, BQICAPT, BQICASPL, BQICAUTL, BQICEVW, BQICMHLF BQICMLST, BQICMVW, BQIDCAH, BQIDCASN, BQIDCERA, BQIPLCP BQIPLCR, BQIPLTP, BQIRGPL, BQIRMDR, BQIVFCHC
FIND^DIC	BQIVFTLK
IX^DIC	BQICALRT
FILE^DICN	BQI23POS, BQI23PU, BQICAEXP, BQICALRT, BQICEVW, BQICMVW BQIGPUPD, BQIGPVW, BQIIPCLN, BQIIPMON, BQIIPRVG, BQIIPSIT BQIIPTVW, BQIIPUPD, BQIIPUTL, BQILYDEF, BQIMUMON, BQIMUUSR BQINIGH1, BQIPLCP, BQIPLCR, BQIPLFL, BQIPLPM, BQIPLSH, BQIPLTP BQIPLVWC, BQIPTRP1
^DICR	BQIPTRPU, BQIRMDR, BQISYKEY, BQISYPRM, BQITASK dd90506.1
DT^DICRW	BQICALRT, BQIDCASN, BQIDCERA, BQIGPUTL, BQINIGH1, BQINIGHT BQIUTB
\$\$GET1^DID	BQIPTREP, BQIPTRP1, BQIUTB, BQIUTB1, BQIVFTLK
FIELD^DID	BQIIPCUT, BQIIPSIT, BQIUTB1, BQIVFTLK
^DIE	BQIPLUSR, BQIRMDR
FILE^DIE	BQI23POS, BQI23PU, BQICAEXP, BQICALRT, BQICEVW, BQICMVW BQIGPUPD, BQIGPVW, BQIIPMON, BQIIPSIT, BQIIPTVW, BQIIPUPD BQILYDEF, BQIMUMON, BQIMUUSR, BQINIGH1, BQINIGH2, BQINIGHT BQIPLCP, BQIPLCR, BQIPLFL, BQIPLFLD, BQIPLLK, BQIPLPM, BQIPLPP BQIPLRF, BQIPLSH BQIPLTP, BQIPLUSR, BQIPLVEW, BQIPLVWC, BQIPTREP, BQIPTRP1 BQIPTRPU, BQIRMDR, BQIRMDR1, BQISYPRM, BQITASK, BQITASK1 BQITASK5, BQITASK6, BQITDPAT, BQITMPLS
UPDATE^DIE	BQIPLUSR
WP^DIE	BQI23POS, BQINIGH1, BQINIGH2, BQIPLCP, BQIPLFL, BQIPLPM BQIPLPP, BQIPLRF, BQIPLTP
^DIK	BQI23POS, BQI23PRE, BQICALRT, BQIIPCLN, BQIIPSIT, BQIIPTVW BQILYDEF, BQIMUUSR, BQINIGH1, BQINIGHT, BQIPLCP, BQIPLCR BQIPLFL, BQIPLFLD, BQIPLPM, BQIPLTP, BQIRMDR, BQISYKEY BQISYPRM, BQITASK, BQITDPAT, BQITDTG, BQITMPLS
ENALL^DIK	BQI23POS, BQICALRT, BQIRMDR, BQIRMDR1
IX^DIK	BQIPLCP, BQIPLCR, BQIPLTP
IX1^DIK	BQINIGHT
IXALL^DIK	BQI23PU
\$\$IENS^DILF	BQI23POS, BQI23PU, BQICAEXP, BQICALRT, BQICAPT, BQICASPL BQICEVW, BQICMUTL, BQICMVW, BQIDCAH, BQIDCDF, BQIGPRA

	BQIGPUPD, BQIGPUTL, BQIGPVW, BQIIPCM, BQIIPCMH, BQIIPPNL BQIIPRA, BQIIPPRV, BQIIPPT, BQIIPPTBL, BQIIPVW, BQIIPUPD BQILYDEF, BQIMSPL, BQIMUMON BQIMUPER, BQIMUUSR, BQINIGH1, BQINIGH2, BQINIGHT, BQIPDSCF BQIPDSCM, BQIPLCP, BQIPLCR, BQIPLDF, BQIPLDS1, BQIPLFL BQIPLFLD, BQIPLLK, BQIPLPM, BQIPLPP, BQIPLRF, BQIPLRT, BQIPLSH BQIPLTP, BQIPLUSR, BQIPLVEW, BQIPLVWC, BQIPLVWP, BQIPTALG BQIPTINS, BQIPTREP BQIPTRP1, BQIRGPL, BQIRGTHM, BQIRMDR, BQIRMDR1, BQIRMP BQITASK, BQITMPLS, BQIULPT, BQIUTB2, BQIVFCHC BQICAUTL, BQICMUTL, BQIGPRA, BQIGPUPD, BQIIPPTBL, BQIIPUPD BQINIGHT, BQIPTRPF, BQITDUTL, BQIUTB, BQIUTB1, BQIVFTLK BQIRMDR BQIUTB, BQIUTB1, BQIVFTLK
\$\$ROOT^DILFD	BQICAUTL, BQICMUTL, BQIGPRA, BQIGPUPD, BQIIPPTBL, BQIIPUPD BQINIGHT, BQIPTRPF, BQITDUTL, BQIUTB, BQIUTB1, BQIVFTLK BQIRMDR
\$\$VFIELD^DILFD	BQIUTB, BQIUTB1, BQIVFTLK
\$\$VFILE^DILFD	BQIUL1
\$\$FMTE^DILIBF	dd90506, dd90506.03, dd90506.04, dd90506.1, dd90506.2 dd90506.3, dd90506.31, dd90506.5, dd90508.2 dd90508.221
^DIM	
\$\$GET1^DIQ	BQI23POS, BQICAEXP, BQICALRT, BQICAPT, BQICASPL, BQICAUTL BQICEVW, BQICMHL, BQICMLST, BQICMUTL, BQICMVW, BQIDCAH BQIDCAH1, BQIDCAH2, BQIDCASN, BQIDCDF, BQIDCERA, BQIGPORD BQIGPRA, BQIGPUPD, BQIGPUTL, BQIGPVW, BQIIPBNL, BQIIPCM BQIIPCMH, BQIIPOTC, BQIIPPNL BQIIPRA, BQIIPPRV, BQIIPPT, BQIIPSIT, BQIIPPTBL, BQIIPVW BQIIPUPD, BQILYDEF, BQIMSLST, BQIMSPL, BQIMUEXP, BQIMUFAC BQIMUFCH, BQIMUPER, BQIMUTAB, BQIMUUSR, BQINIGH1, BQINIGHT BQIPDSCF, BQIPDSCM, BQIPLCP, BQIPLCR, BQIPLDF, BQIPLDS1 BQIPLFL, BQIPLLK, BQIPLPM BQIPLPP, BQIPLRF, BQIPLRT, BQIPLSH, BQIPLTP, BQIPLUSR BQIPLVEW, BQIPLVW, BQIPLVWC, BQIPLVWP, BQIPTALG, BQIPTINS BQIPTREP, BQIPTRP1, BQIPTRPF, BQIPTRPU, BQIRGPL, BQIRGPT BQIRGTHM, BQIRMDR, BQIRMDR1, BQIRMP, BQIRMREG, BQISYPRM BQISYSIT, BQITASK, BQITDPAT BQITDTG, BQITDUTL, BQITMPLS, BQIUL1, BQIULPT, BQIUTB, BQIUTB1 BQIUTB2, BQIVFCHC, BQIVFTLK
GETS^DIQ	BQIPDSCF, BQIPLDF, BQIPLRT, BQIPLSH, BQIPTREP, BQIPTRPU BQITMPLS
^DIR	BQIIPST
\$\$HLDATE^HLFNC	BQICAHLO
\$\$ADDMSG^HLOAPI	BQICAHLO
\$\$ADDSEG^HLOAPI	BQICAHLO
\$\$NEWBATCH^HLOAPI	BQICAHLO
SET^HLOAPI	BQICAHLO
\$\$SENDONE^HLOAPI1	BQICAHLO
ICDDX^ICDCODE	BQICALRT
AGET^ORWRR	BQIGPORD
MAIN^PXR	BQIRMDR1
\$\$PRIMVPRV^PXUTL1	BQIUL1, BQIULPT
\$\$CURRENT^USRLM	BQIMUPRH, BQIMUPRV, BQIUTB
\$\$LOWER^VALM1	BQICMLST, BQIGPUPD, BQINIGH1, BQIPTALG, BQIRMDR1, BQIUTB
^XBGSAVE	BQICAEXP, BQIMUEXP
\$\$DOW^XLFD	BQITASK5, BQITASK6
\$\$DT^XLFD	BQINIGHT, BQIPTRPF, BQIRMDR, BQITASK, BQITASK1
\$\$FMADD^XLFD	BQI23POS, BQICALRT, BQIGPUPD, BQIPEMP, BQIMSPL, BQIMUMON BQIMURPT, BQIMUTIM, BQINIGH1, BQINIGHT, BQIPTRPF, BQIRMDR BQITASK, BQITASK1, BQITASK5, BQITASK6, BQITD13, BQIULPT
\$\$FMTE^XLFD	BQICAEXP, BQIGPRA, BQIMUEXP, BQINIGHT, BQIPDSCF, BQIPDSCM BQIPLDS1, BQIUL1
\$\$FMTHL7^XLFD	BQICAEXP
\$\$HDIFF^XLFD	BQITASK5
\$\$HTFM^XLFD	BQITASK5

\$\$NOW^XLFDT	BQICAHLO, BQICAPT, BQICASPL, BQICEVW, BQICMLST, BQICMVW BQIDCDF, BQIEHHLF, BQIGPORD, BQIGPRA, BQIGPUPD, BQIGPVW BQIIPCGL, BQIIPCLN, BQIIPCM, BQIIPCMH, BQIIPCUT, BQIIPMON BQIIPPNL, BQIIPPOR, BQIIPRA, BQIIPPRV, BQIIPPT, BQIIPPTBL BQIIPTVW, BQIILYDEF, BQIMSLST BQIMSPL, BQIMUFAC, BQIMUFCH, BQIMUMON, BQIMUPRH, BQIMUPRS BQIMUPRV, BQIMURPT, BQIMUTAB, BQIMUSR, BQINIGH1, BQINIGH2 BQINIGHT, BQIPLCP, BQIPLCR, BQIPLDF, BQIPLFL, BQIPLFLD BQIPLLK, BQIPLPM, BQIPLPP, BQIPLRF, BQIPLRT, BQIPLSH, BQIPLTP BQIPLUSR, BQIPLVEW BQIPLVW, BQIPLVWC, BQIPLVWP, BQIPTALG, BQIPTINS, BQIPTREP BQIPTRP1, BQIPTRPF, BQIPTRPU, BQIRGPL, BQIRGPT, BQIRGTHM BQIRMDR, BQIRMPL, BQIRMREG, BQISYKEY, BQISYPRM, BQISYSIT BQITASK, BQITASK1, BQITASK5, BQITASK6, BQITDPAT, BQITMPLS BQIULPT, BQIULSC, BQIUTB BQIUTB1, BQIVFCHC, BQIVFTLK
\$\$LEAP^XLFDT2	BQIIPCCP, BQIPEMP, BQIIPMON, BQIIPOTC, BQIIPPRG, BQIIPRVG BQIMUMON, BQIMUTIM
\$\$STRIP^XLFSTR	BQICAEXP, BQIDCAH1, BQIGPRA
\$\$SUP^XLFSTR	BQICAEXP, BQIGPVW, BQIMUEXP, BQIPDSCF, BQIPDSCM, BQIPLDS1 BQIULSC
\$\$GET^XPAR	BQIULSC
\$\$PATCH^XPDUTL	BQIPTRP1, BQIRMDR, BQISYSIT
\$\$VERSION^XPDUTL	BQI23PU, BQICMLST, BQIDCASN, BQIGPRA, BQIGPUPD, BQIGPUTL BQIIPPT, BQIMSLST, BQINIGHT, BQIPTREP, BQIPTRP1, BQISYSIT BQITASK, BQIULPT, BQIVFTLK
\$\$PROD^XUPROD	BQIIPPOR, BQIIPST
\$\$ACTIVE^XUSER	BQISYKEY
\$\$EN^XUSHSH	BQIULSC
\$\$DECRYPT^XUSRB1	BQIULSC
RESCH^XUTMOPT	BQITASK5

Routines not marked as entry point:

None of the generated taxonomy programs (CREATED BY ^ATXSTX) have EPs.		
DETAIL^BEHOCACV	BQIPTALG	EHR routine
GRPORD^BEHOOGP	BQIGPORD	EHR routine
\$\$GETNAME^BEHOPTP2	BQIPLDSC	EHR routine
PLSTLST^BEHOPTP2	BQIUTB2	EHR routine
ICDDX^ICDCODE	BQICALRT, BQIPTFHD, BQIPTFHE	VA routine
	BQIPTFHR, BQIPTFHS, BQIRPL	VA routine
\$\$HLDATE^HLFNC	BQICAHLO	VA routine
\$\$ADDMSG^HLOAPI	BQICAHLO	VA routine
\$\$ADDSEG^HLOAPI	BQICAHLO	VA routine
\$\$NEWBATCH^HLOAPI	BQICAHLO	VA routine
SET^HLOAPI	BQICAHLO	VA routine
\$\$SENDONE^HLOAPI1	BQICAHLO	VA routine
AGET^ORWORR	BQIGPORD	EHR routine
MAIN^PXR	BQIRMDR1	EHR routine
\$\$PRIMVPRV^XPDTL1	BQIUL1, BQIULPT	EHR routine
\$\$CURRENT^USRLM	BQIMUPRV	VA routine
\$\$LOWER^VALM1	BQIREM, BQIRMAGG, BQIUTB	VA routine
\$\$DOW^XLFDT	BQISCHED	VA routine
\$\$DT^XLFDT	BQI22POS, BQIGPRA5, BQIMUSIT, BQINIGHT, BQIRPL	
\$\$FMADD^XLFDT	BQI22POS, BQICALRT, BQICASUI, BQIGPRA5, BQIMUSIT, BQINIGHT BQIRPL, BQISCHED	VA routine
\$\$FMDIFF^XLFDT	BQISCHED	VA routine
\$\$FMTE^XLFDT	BQI22POS, BQIBHSFP, BQIGPRA, BQIGPRA5, BQINIGHT, BQIPLDS1 BQIPLDSC, BQIREM, BQIRPL	VA routine
\$\$NOW^XLFDT	BQIBHSFL, BQIBHSFP, BQICAPT, BQICASPL, BQIGPRA, BQIGPRA5	

	BQIMSLST, BQIMUFAC, BQIMUHL, BQIMUPRV, BQIMUSIT, BQIMUTAB	
	BQIMUVFL, BQINIGHT, BQIPLFL, BQIPLPP, BQIPLUSR, BQIPLVWC	
	BQIPTDDG, BQIREM, BQIRMAGG, BQIRML, BQIRPL, BQISYKEY	
	BQISYSIT, BQITASK4, BQIUTB	
	BQIVFCHC	VA routine
\$\$LEAP^XLFD2	BQIIPCCP, BQIPEMP, BQIIPMON, BQIIPOTC, BQIIPPRG, BQIIPRVG	
	BQIMUMON, BQIMUTIM	VA routine
\$\$STRIP^XLFSTR	BQIBHSFP, BQIDCAH1, BQIGPRA, BQIGPRA5, BQIUL2	VA routine
\$\$SUP^XLFSTR	BQIPLDS1, BQIPLDSC	VA routine
\$\$PATCH^XPDUTL	BQIREM, BQIRPL, BQISYSIT	VA routine
\$\$VERSION^XPDUTL	BQIGPRA, BQIGPRA5, BQIMSLST, BQINIGHT, BQIRPL, BQISYSIT	VA routine
routine		
\$\$PROD^XUPROD	BQIIPPOR, BQIIPST	VA routine
\$\$ACTIVE^XUSER	BQISYKEY	VA routine
\$\$EN^XUSHSH	BQIULSC	VA routine
\$\$DECRYP^XUSRB1	BQIULSC	VA routine
RESCH^XUTMOPT	BQISCHED	VA routine

8.2 Callable Routines–Published Entry Points

Routine Called	Description
RFADD^APCDRF; PEP	called to add a patient to the Reproductive Factors file
RHEDIT^APCDRF; PEP	called to edit reproductive hx data fields
GVHMR^APCHSMU ; PEP	can be called by any application
CLINIC^APCLV ; PEP	given V is visit ien, F is format, returns clinic on visit
PRIMPROV^APCLV; PEP	returns primary provider on that visit in F format
COMMRES^AUPNPAT ; PEP	Given DFN, return comm of res in F format
HRN^AUPNPAT ;PEP	
FHCHK^ AUPNSICD ; PEP	called from input tx on FAMILY HISTORY .01 field
ALLDP^BDPAPI ; PEP	return array of designated providers in all categories or 1 category
BQI^BGPMUEHD ; PEP	iCARE
BQI^BGPMUEPD ; PEP	Icare
IMMPROF^BQIRPC ; PEP	Return ImmServe Profile in global array

8.3 Exported options

There are no callable options in iCare since the user interface is GIU. BQIRPC is the broker option.

Option Name	Description
BQIRPC	This option hosts RPCs in the BQI namespace. iCare users must have access to this option in order to use iCare.
BTPWRPC	This option hosts the CMET RPCs. It is placed on the BQIRPC option so that iCare users may access CMET from iCare.

9.0 Archiving and Purging

There is no archiving or purging in iCare.

10.0 Documentation Resources

This section describes a few methods to generate iCare system technical documentation.

10.1 %INDEX Option

This option analyzes the structure of a routine to determine in part if the routine adheres to RPMS programming standards. The %INDEX output can include the following components:

- Compiled list of errors and warnings
- Routine listing
- Local variables
- Global variables
- Naked globals
- Label references
- External references

Running %INDEX for a specified set of routines allows users to discover any deviations from RPMS programming standards that exist in the selected routines and to see how routines interact with one another (i.e., which routines call or are called by other routines).

To run %INDEX for the Patient Registration package, type the BQI namespace at the “Routine(s)?>” prompt.

10.2 List File Attributes Option

This VA FileMan option allows users to generate documentation pertaining to files and file structure. Using the standard format of this option yields the following data dictionary information for a specified file:

- File name and description
- Identifiers
- Cross-references
- Files pointed to by the file specified
- Files that point to the file specified
- Input, print, and sort templates

In addition, the following applicable data is supplied for each field in the file:

- Field name, number, title, and description
- Global location
- “Help” prompt
- Cross-references
- Input transform
- Date last edited
- Notes

Using the Global Map format of this option generates an output that lists the following information:

- All cross-references for the file selected
- Global location of each field in the file
- Input, print, and sort templates

For a comprehensive listing of Patient Registration package files, please refer to Section 6.0.

11.0 SAC Requirements and Exemptions

The following is a Standards and Conventions (SAC) Exemption Request for use of third-party User Interface (UI) controls.

Request for Exemption to RPMS Programming Standards	
Package: BQI-iCare	Date: Jan. 07
Program: N/A	
Line Number: N/A	
Applicable Standard: Section 9 of the 2006 SAC	
Item #7 under Section 9.3 states that a SAC exemption must be requested for use of commercially purchased controls.	
Reason for Exemption:	
Requirements for the iCare application required the use of enhanced UI controls for datagrid, toolbars, tabbed MDI interface and print preview displays. To accommodate these needs without significant additional development time and cost associated with developing these custom controls, commercially available user interface controls were purchased from Infragistics for a nominal fee and were utilized within the GUI portion of the iCare application. The set of controls used at the time of this writing is the NetAdvantage [®] for Windows [®] Forms–Version 2007 Vol 1.	
The licensing agreement is attached with this application, and our understanding is that the control dll files may be incorporated and distributed with applications freely. The charge only comes into play for the developer licenses, i.e. in order for a developer to use these controls within a new application, they must have a properly licensed copy of the developer tools on the machines used for development.	
Use of these tools was suggested and encouraged by IHS liaisons early in the design phase of the project.	
Additional information about these controls is available from the Infragistics Web site:	
Product Description:	
http://www.infragistics.com/dotnet/netadvantage/winforms.aspx#Overview	
508 Accessibility Information:	
http://www.infragistics.com/learn/accessibility.aspx	
Current license agreement:	
http://www.infragistics.com/products/license.aspx#LicenseAgreements	
Developer:	
SACC Review	Date:
Recommend APPROVAL___ DISAPPROVAL___	
Duration:	
Comments:	
OIT Action	Date:
Request APPROVED___ DISAPPROVED___	
Comments:	
Director, DIT	

12.0 Templates, Forms, and Protocols

12.1 Print Templates

There are no print templates in iCare.

12.2 Sort Templates

There are no sort templates in iCare.

12.3 Input Templates

There are no input templates in iCare.

12.4 List Templates

There are no list templates in iCare.

12.5 Forms

There are no forms in iCare.

12.6 Protocols

There are no protocols in iCare.

13.0 iCare Windows Client

13.1 Description of Development Environment

The iCare application was developed using the programming language C# within Microsoft® Visual Studio® (MS VS) 2008 integrated development environment (IDE). iCare is written to utilize the MS .NET 2.0 framework. All new classes created for the iCare application exist within the namespace IndianHealthService.iCare.

In addition to the standard .NET object classes, the iCare application also uses commercially available Windows® form controls from Infragistics. All the controls used were part of a package of controls named Infragistics NetAdvantage® for Windows® Forms 2010 Volume 3.

In addition, the iCare application also utilizes the BMX version 4.0 software to facilitate security authentication and communication between the GUI Windows® application and the RPMS server data. All data retrieval and updates are handled through the RPCs defined in the BQIRPC and BMXRPC namespaces.

All of the dynamic link library (dll) files upon which iCare depend are delivered with the iCare application install package and are stored in the iCare program directory. The default iCare install directory is: C:\%ProgramFiles%\Indian Health Service\iCare Version {Version Number}. There are no Active-X/COM files installed or registered with the iCare application.

13.2 iCare RPMS Server Requirements

The RPMS server portion of the iCare application does not require a specific version of Cache® or operating system (OS). However, the server needs to be able to support BMX 4.0 fully, and is therefore subject to any requirements needed to run that application. Please refer to the BMX version 4.0 Technical Manual for details.

The iCare GUI client has certain workstation OS and hardware requirements, as detailed in Section 2.32 of the iCare (BQI) Installation Guide and Release Notes.

13.3 List of iCare GUI Dependencies

The following table shows the GUI dependencies associated with the iCare application.

Dependency	Assembly Version	Description
MS .Net 2.0 Framework	Version 2.0 with any subsequent service packs from Microsoft®	The Microsoft® .NET 2.0 Framework is required for the iCare allocation. The iCare installation package will check this prerequisite during install and will assist with the download of this update from Microsoft®. If online download is not available, installation will not be allowed until .Net 2.0 has been installed by other means.
BMXNet20.dll	2.0.2459.21970	This is the original BMXNet 2.0 dll utilized by BMXNet 4.0 to map existing connection information cached on clients to the new BMXNet 4.0 configuration
BMXNet40.dll	4.0.0.2	This library file contains the general BMXNet 4.0 client-side utilities and functions for connecting to the RPMS server and managing data connections.
BMXWIN40.dll	4.0.0.2	This dll contains BMXNet 4.0 client side utilities and functions that are specific to use within the Windows stand-alone application environment.
bqi-iCareControlLibrary1.dll	2.1.4101.17571	The iCareControlLibrary1 is a VS 2008 collection of custom UI controls used by the iCare client.
bqi-ultraGridToolBar.dll	2.1.4352.17570	The ultraGridToolBar is a VS 2008 custom UI control used by the iCare client.
RichTextBoxPrintControl.dll	1.0.0.0	This class extends the RichTextBox control to allow for generation of formatted print documents for use in print preview and print to printer functions. Specifically, this is used to print character based reports pulled from RPMS and displayed in the iCare application.

Dependency	Assembly Version	Description
UserInactivityMonitoring.dll	0.0.0.0	This class allows the iCare application to monitor user activity and implement locking and timeout functionality required by IHS for implementation on shared client machines.
Infragistics NetAdvantage® for Windows® Forms	2010 Vol.10	
10.3.20103.1000	These dll files are also distributed with the iCare installation package. See Section 6.1 for details of individual files that are distributed.	
Microsoft.Office.Interop.Excel.dll	11.0.5530	Microsoft® Office Interoperability dll used to allow iCare to open, edit and save MS Excel files.
Microsoft.Vbe.Interop.dll	14.0.4760.1000	Microsoft® Office Interoperability dll used to allow iCare to open, edit and save MS Excel files.
office.dll	14.0.4760.1000	Microsoft® Office core dll used to allow iCare to open, edit and save MS Excel files.

13.4 iCare Windows Client–Install %

The following table shows all of the files that will be installed with the iCare application. These files are installed into the main iCare application folder, which defaults to C:\%ProgramFiles%\Indian Health Service\iCare {Version Number}.

Filename	Assembly Version	Description
bqi-iCare.exe	2.3.0.25	This is the main iCare executable used to launch and run the iCare application.
BMXNet20.dll	2.0.2459.21970	This is the original BMXNet 2.0 dll utilized by BMXNet 4.0 to map existing connection information cached on clients to the new BMXNet 4.0 configuration

Filename	Assembly Version	Description
BMXWIN40.dll	4.0.0.2	This dll contains BMXNet 4.0 client side utilities and functions that are specific to use within the Windows® stand-alone application environment.
BMXNET40.dll	4.0.0.2	This library file contains the general BMXNet 4.0 client-side utilities and functions for connecting to the RPMS server and managing data connections..
bqi-iCareControlLibrary1.dll	2.1.0.0	The iCareControlLibrary1 is a VS 2008 collection of custom UI controls used by the iCare client.
bqi-ultraGridToolBar.dll	2.1.0.0	The ultraGridToolBar is a custom VS 2008 UI control that handles the set of buttons for search, print, copy, and export to MS Excel on each datagrid in the iCare application.
RichTextBoxPrintControl.dll	1.0.0.0	This class extends the RichTextBox control to allow for generation of formatted print documents in print preview and print to printer functions. Specifically, this is used to print character based reports pulled from RPMS and displayed in the iCare application.
UserInactivityMonitoring.dll	0.0.0.0	This class allows the iCare application to monitor user activity and implement locking and timeout functionality required by IHS for implementation on shared client machines.

Filename	Assembly Version	Description
Microsoft.Office.Interop.Excel.dll	11.0.0.0	Microsoft® Interop dll. Used to reference Microsoft® Office documents.
Microsoft.Vbe.Interop.dll	14.0.4760.1000	Microsoft® Office Interoperability dll used to allow iCare to open, edit and save MS Excel files.
office.dll	14.0.4760.1000	Microsoft® Office core dll used to allow iCare to open, edit and save MS Excel files.
MAIN.ico		This is the main icon file used for iCare.exe.
iCare_Population_Management_GUI.chm		Compiled HTML file that contains the online help for the iCare application.

The following table shows all of the files that are part of a set of enhanced UI controls from Infragistics called NetAdvantage® for Windows Forms® Version 2010 Volume 3.

Filename	Assembly Version	Description
Infragistics2.Documents.v10.3.dll	10.3.20103.1000	This file contains the Infragistics Document Engine that allows export of PDF and XML formats.
Infragistics2.Excel.v10.3.dll	10.3.20103.1000	This file contains helper classes that allow export to MS Excel format without requiring that MS Excel is installed on the client machine.
Infragistics2.Shared.v10.3.dll	10.3.20103.1000	This file contains general functions and types common to all of the Infragistics controls.

Filename	Assembly Version	Description
Infragistics2.Win.Misc.v10.3.dll	10.3.20103.1000	This is a set of other miscellaneous functions and data types used when working with the other Infragistics classes.
Infragistics2.Win.UltraWinCalcManager.v10.3.dll	10.3.20103.1000	This dll file contains functionality to allow definition of functions and calculations with the Windows® UltraGrid™ enhanced DataGrid class.
Infragistics2.Win.UltraWinChart.v10.3.dll	10.3.20103.1000	This dll file contains functionality used when charting patient measurements from PCC over time.
Infragistics2.Win.UltraWinDataSource.v10.3.dll	10.3.20103.1000	This dll file contains functionality to create manage data sources that can be used with the Windows® UltraGrid™, etc.
Infragistics2.Win.UltraWinDock.v10.3.dll	10.3.20103.1000	This dll file contains functionality to create manage docks that can be used with the Windows® UltraGrid™, etc.
Infragistics2.Win.UltraWinEditors.v10.3.dll	10.3.20103.1000	This dll file contains enhanced UI input controls such as the calendar date picker and special combo boxes.

Filename	Assembly Version	Description
Infragistics2.Win.UltraWinGauge.v10.3.dll	10.3.20103.1000	This dll file contains enhanced UI input control such as gauges.
Infragistics2.Win.UltraWinGrid.ExcelExport.v10.3.dll	10.3.20103.1000	This file contains the classes used to handle export of information from UltraGrid™ DataGrid to MS Excel format.
Infragistics2.Win.UltraWinGrid.v10.3.dll	10.3.20103.1000	The UltraGrid™ is an enhanced data-bound DataGrid used to display tabular data to the user. This also allows users to sort, filter, arrange columns, and select rows of data at run time.
Infragistics2.Win.UltraWinListBar.v10.3.dll	10.3.20103.1000	The UltraWinListBar is used to aid with navigation to forms.
Infragistics2.Win.UltraWinListView.v10.3.dll	10.3.20103.1000	The UltraWinListView is a user interface control to display lists of items.
Infragistics2.Win.UltraWinPrintPreviewDialog.v10.3.dll	10.3.20103.1000	This file contains classes to handle print preview windows for printable items with the application and allows for zoom, page layout adjustments, etc.
Infragistics2.Win.UltraWinSchedule.v10.3.dll	10.3.20103.1000	This file contains classes for scheduling controls for uses such as calendar, week views and month views, etc.

Filename	Assembly Version	Description
Infragistics2.Win.UltraWinStatusBar.v10.3.dll	10.3.20103.1000	The UltraWinStatusBar provides the enhanced status bar used at the bottom of form to provide status text and row counts.
Infragistics2.Win.UltraWinTabbedMdi.v10.3.dll	10.3.20103.1000	The classes within this file provide a way to present multiple forms within a tabbed interface style.
Infragistics2.Win.UltraWinTabControl.v10.3.dll	10.3.20103.1000	The UltraWinTabControl provides an enhanced tab UI interface used on forms to present multiple pages of data.
Infragistics2.Win.UltraWinToolbars.v10.3.dll	10.3.20103.1000	This file contains classes to handle the toolbars, menu and context menus (right-click) within Windows® forms.
Infragistics2.Win.UltraWinTree.v10.3.dll	10.3.20103.1000	The UltraWinTree allows presentation of data in a tree style layout where the user is able to drill down into categories of data.
Infragistics2.Win.v10.3.dll	10.3.20103.1000	This file contains classes used at a high level to control application-wide styles and appearances and interface with Windows® XP themes, etc.

13.5 iCare Windows Client — List of Object Classes

The following table shows the new object classes used within the iCare Windows® application. All of the specified class names exist within the namespace IndianHealthService.iCare.

Class Name	Assembly	Description
CMETUtilities	bqi-iCare.exe	The CMETUtilities class provides utilities for implementation of CMET functionality in iCare.
CmetWorksheet	bqi-iCare.exe	The CmetWorksheet class is a custom user control used to implement the CMET Worksheet functionality for processing a CMET tracked event through iCare
DAddTemplate	bqi-iCare.exe	DAddTemplate class provides a view to allow users to select layout type and template name before editing template.
DAppTimeCountdown	bqi-iCare.exe	DAppTimeCountdown class provides a 60 second timer gauge for counting down before minimizing iCare application.
DBackProcProperties	bqi-iCare.exe	The DBackProcProperties class provides a grid view of the status for background jobs that iCare utilizes. The screen displays the name of the process, the last run date/time, and the next run date/time.
DCategoryPicker	bqi-iCare.exe	The DCategoryPicker class provides the user the ability to pick a desired category for a panel. Category editing can also be accessed from this class.
DChartView	bqi-iCare.exe	The DChartView class provides the user the ability to graph PCC Measurement data for a specific patient through iCare
DChartViewIPCFacAgg	bqi-iCare.exe	The DChartViewIPCFacAgg class provides the user the ability to graph IPC Facility Aggregated Measurement data through iCare

Class Name	Assembly	Description
DChartViewIPCProvAggByMeasures	bqi-iCare.exe	The DChartViewIPCProvAggByMeasures class provides the user the ability to graph IPC Provider Aggregated Measurement selected by measure data through iCare
DChartViewIPCProvAggByProv	bqi-iCare.exe	The DChartViewIPCProvAggByProv class provides the user the ability to graph IPC Provider Aggregated Measurement selected by provider data through iCare
DChartViewNationalMeasures	bqi-iCare.exe	The DChartViewNationalMeasures class provides the user the ability to graph National Measurement data for a specific patient through iCare
DChoiceDlg	bqi-iCare.exe	The DChoiceDlg class allows the user to select one or more selections in a generic dialog as a list of radiobuttons or checkboxes
DCMETSiteParameters	bqi-iCare.exe	The DCMETSiteParameters class allows the user with CMET Package Manager access to edit the CMET Site Parameters
DColorPicker	bqi-iCare.exe	The DColorPicker class allows the user to select a desired color and is implemented to support the new panel category feature.
DCommAlerts	bqi-iCare.exe	The DCommAlerts class provides a display of any active community alerts at login.
DCopyPanel	bqi-iCare.exe	The DCopyPanel class allows the user to create a copy of a panel from the user's panel list in iCare
DGenEdit	bqi-iCare.exe	The DGenEdit class is a table-driven dynamic data entry form that can be used to provide an interface to simpler RPMS data entry screens.

Class Name	Assembly	Description
DGenEditForm	bqi-iCare.exe	This class simply provides a prewrapped DGenEdit control in a form with appropriate default form settings preconfigured.
DGenLetter	bqi-iCare.exe	The DGenLetter class was the first draft of the TIU notes interface within iCare
DGridView	bqi-iCare.exe	The DGridView class provides a generic grid data display form with the standard grid functions (search, print, etc.) for data best displayed in a tabular fashion.
DHMSTurnOffDate	bqi-iCare.exe	This form class provides the interface to allow iCare package manager users to adjust the automatic turn-off date/time for the "roll-and-scroll" HMS register application (BKM namespace). This functionality is eliminated in v2.1 as the HMS RPMS interface was sunsetted after the v2.0 release.
DiCareMain	bqi-iCare.exe	The iCareMain class provides the main form for the iCare application. It currently contains a tabbed multiple document interface (MDI) control that holds the Panel List and the Flag List for the signed-in iCare user. Closing the main form will exit the application.
DInputDialog	bqi-iCare.exe	The DInputDialog class provides a generic user input form used primarily when copying panels to a different name. Updated in to allow masked input and encryption for electronic signature functionality.
DInputDialogMultiline	bqi-iCare.exe	The DInputDialogMultiline class provides a generic user input form to allow multiline data entry.
DlpcExport	bqi-iCare.exe	The DlpcExport class provides a method for the user to select month and provider to export for IPC reporting

Class Name	Assembly	Description
DLetterView	bqi-Care.exe	The DLetterView class allows users to create a TIU note through iCare, save it to RPMS and sign it electronically to complete it
DManageTemplates	bqi-Care.exe	The DManageTemplates class provides window for users to manage templates for panel view. Templates are now shareable across users.
DMsgBox	bqi-iCare.exe	The DMsgBox class provides a generic message box that displays a message to the user when the application is performing a task that must complete before the user can continue.
DMUSiteParameters	bqi-iCare.exe	The DMUSiteParameters class allows users with the appropriate security key to maintain the site's MU site parameters
DNewVersion	bqi-iCare.exe	The DNewVersion class allows users to choose to revisit their User Preferences when a new version of the software is released
DNotifications	bqi-iCare.exe	The DNotifications class provides a form to allow the user to manage notifications received for the user regarding changes to shared panels, panel repopulate issues, etc.
DPanelDef	bqi-iCare.exe	The DPanelDef class provides a form to allow the user to manage an individual panel definition used to generate the patient list, as well as preview changes to the list, customize the patient list and GPRA detail layouts, manage sharing, and auto-repopulate options.
DPanelProperties	bqi-iCare.exe	This form provides a display of some of the panel's more detailed properties in tabbed interface.

Class Name	Assembly	Description
DPanelSearch	bqi-iCare.exe	The DPanelSearch class provides a form to allow the user to search the patient list from DPanelView based on demographic fields.
DPanelView	bqi-iCare.exe	The DPanelView class provides a form to allow the user to view and manage an individual panel of patients. This form contains a customizable patient list, flag list, customizable GPRA detail list, and GPRA Aggregate all based on patients in the panel.
DPatientProperties	bqi-iCare.exe	The DPatientProperties form class provides a display of additional demographic and other fields related to the patient record in a pop-up window display.
DPatientView	bqi-iCare.exe	The DPatientView class provides a form to allow the user to view and manage an individual patient. This form contains the following tabs: Cover Sheet, Flags, Reminders, Patient GPRA, Face Sheet, Health Summary, Wellness Summary, Labs, Meds, Radiology, and Problem List. The user can manage an individual patient's flags and view patient results in this form.
DPccEdit	bqi-iCare.exe	The DPccEdit class provides the user interface for entering historical PCC event data through iCare.
DPnlAddRemove	bqi-iCare.exe	The DPnlAddRemove class provides a form to allow users to select/deselect panels. This functionality is used when selecting panel filters, adding a patient to panels, and selecting panels to immediately repopulate in the background.
DQueuedEventsTrack	bqi-iCare.exe	The DQueuedEventsTrack class allows users to track CMET data mined events as a batch or singly with the ability to continue on to the CMET Worksheet

Class Name	Assembly	Description
DReassignPanel	bqi-iCare.exe	The DReassignPanel class allows users with iCare Package Manager access to reassign panels from one iCare user to another – especially if users are no longer with the organization
DRegBatchEdit	bqi-iCare.exe	This class provides a dialog that allows the user to change selected values on multiple selected patients within a panel.
DReportGenCancel	bqi-iCare.exe	The DReportGenCancel provides a way to cancel Async loading reports.
DReportMsgCancel	bqi-iCare.exe	The DReportMsgCancel provides a cancel message box after a user cancels an Async report.
DSearchInfo	bqi-ultraGridToolBar.exe	The DSearchInfo class provides a form for the user to search for values within the context of a bound UltraGrid™ (Infragistics control).
DSearchText	bqi-iCare.exe	The DSearchText class allows users to search RichTextBox controls to implement Find functionality
DSelectPatient	bqi-iCare.exe	The DSelectPatient class provides a form to allow users to select patients from the RPMS system based on name, HRN, and DOB searches.
DSiteParametersEmployer	bqi-iCare.exe	The DSiteParametersEmployer class provides a way for users to set Employer site parameters settings.
DSiteParametersGroupOrder	bqi-iCare.exe	The DSiteParametersGroupOrder class provides a way for users to set Group Order site parameters settings.
DSiteParametersIPC	bqi-iCare.exe	The DSiteParametersIPC class provides a way for users to set IPC site parameters settings.
DSiteParametersLockiCare	bqi-iCare.exe	The DSiteParametersLockiCare class provides a way for users to set iCare time out settings.

Class Name	Assembly	Description
DSiteParametersPregnancy	bqi-iCare.exe	The DSiteParametersPregnancy class provides a way for users to set Pregnancy site parameters settings.
DSplash	bqi-iCare.exe	The DSplash class provides the initial splash screen displayed when starting iCare to show startup progress and installed version.
DTableLookup	bqi-iCare.exe	The DTableLookup class provides the ability for users to search for items for generic table search and is implemented in support of the DGenEdit class for generic form generation.
DTagHistory	bqi-iCare.exe	The DTagHistory class provides the user the ability to review the audit history of changes related to a patient's diagnostic tags including the factors that proposed the tag.
DTagReason	bqi-iCare.exe	The DTagReason class provides the user with a form to enter the reason for proposing, accepting or not accepting a diagnostic tag for a patient.
DTaxonomyLookup	bqi-iCare.exe	The DTaxonomyLookup class provide the ability to search for taxonomy items to be included in site populated taxonomies.
DTaxonomyMaint	bqi-iCare.exe	The DTaxonomyMaint class provides a form to allow users to review and edit site-populated taxonomies if the users have the proper access rights.
DTemplate	bqi-iCare.exe	The DTemplate class provides the user the ability to enter user data into existing TIU templates in order to include the template and input into a TIU note.
DTextView	bqi-iCare.exe	The DTextView class provides the user the ability to view text detail such as visit detail, lab detail, etc. for review in iCare.

Class Name	Assembly	Description
DToast	bqi-iCare.exe	The DToast class provides the display of Notifications received by iCare displayed as a pop-up message that will appear and disappear like other MS notifications.
DTrackedEventClose	bqi-iCare.exe	The DTrackedEventClose class allows users to enter a close reason and comment when closing a CMET tracked event
DUnLock	bqi-iCare.exe	The DUnLock class prompts a user to enter their current verify code to unlock iCare.
DUserAppPrefs	bqi-iCare.exe	The DUserAppPrefs class provides a form to allow the user to manage their application preferences such as My Patients Definition, Flag Preferences, and Default Startup View. The form defined by this class also doubles as the Initial Login Wizard that allows users to set up their preferences when first logging into iCare.
DUserRoles	bqi-iCare.exe	The DUserRoles class gives users the ability to manage iCare access rights to manager keys and editor keys for iCare and the CMET package manager keys.
DValAddRemove	bqi-iCare.exe	The DValAddRemove class allows users to select one or more values from RPMS tables
DValTreeAddRemove	bqi-iCare.exe	The DValTreeAddRemove class allows users to select one or more values from RPMS tables using TreeView controls
DViewLayout	bqi-iCare.exe	The DViewLayout class allows users to edit their individual panel layouts and default layout templates
DVisitFilter	bqi-iCare.exe	The DVisitFilter class allows users to define a Visit Detail filter associated with a panel definition. The DVisitFilter class is only referenced from DPanelDef at this time.

Class Name	Assembly	Description
iCareDocumentManager	bqi-iCare.exe	The iCareDocumentManager class provides the framework for RPMS session connectivity, authentication, and other sign-on tasks. The iCareDocumentManager class also serves as the main document controller for the application by managing a list of open windows, document locking, most recently used (MRU) list, and logic to handle cleanup on application exit.
iCareUser32	bqi-iCare.exe	The iCareUser32 class provides access to User32.dll methods and is implemented to lock iCare.
iCareUtilities	bqi-iCare.exe	The iCareUtilities class contains utility functions used through the iCare application
LabelLookup	bqi-iCare.exe	The LabelLookup class is a custom user control implemented in DGenEdit for table lookups when the RPMS table is too big to display as a combo box.
mdiAlerts	bqi-iCare.exe	The mdiAlerts class provides the MDI form that allows users to manage flags for any patient in at least one panel of the user's panel list. Flags can be refreshed, shown, and hidden from this form and patients can be opened from the form defined by this class, as well.
mdiCommunityAlerts	bqi-iCare.exe	The mdiCommunityAlerts class provides a form that can be added as a tab on iCareMain screen to provide a list of current community alerts.
mdiEventTracking	bqi-iCare.exe	The mdiEventTracking class provides a form that is added as a tab on the iCare Main form to provide access to CMET (Care Management Event Tracking) events via three sub-tabs, Events, Tracked Events, and Follow-up Events, where users can manage their site's CMET workflow.

Class Name	Assembly	Description
mdiIPC	bqi-iCare.exe	The mdiIPC class provides a form that is added as a tab on the iCare Main form to provide access to IPC measurements via four sub-tabs where users can review their site's IPC performance: Patient Detail; Provider Detail; Providers Aggregated; and Facility Aggregated.
mdiMeaningfulUse	bqi-iCare.exe	The mdiMeaningfulUse class provides a form that is added as a tab on the iCare Main form to provide access to Meaningful Use measurements via four sub-tabs where users can review their site's MU performance: Providers – Obj; Hospital/CAHs – Obj; Providers – CQ; and Hospital/CAHs – CQ.
mdiNationalMeasures	bqi-iCare.exe	The mdiNationalMeasures class provides a form that is added as a tab on the iCare Main form to provide access to the site's National Measures performance.
mdiPanelList	bqi-iCare.exe	The mdiPanelList class provides the MDI-child form that allows users to manage panels that are owned (created) by them or shared with them by another user. In addition, the form defined by this class, allows panels to be created, edited, repopulated, deleted, shared, opened, and copied.
MultiltemEditor	bqi-iCareControlLibrary1.dll	This is a grid editing control that allows display and editing of multicolumn subrecord data within a single data entry form.
PnlDocument	bqi-iCare.exe	The PnlDocument class is the primary panel object for the RPMS panel file
PnlFilters	bqi-iCare.exe	The PnlFilters class is the object used to contain the filters associated with a panel definition

Class Name	Assembly	Description
PnlLayout	bqi-iCare.exe	The PnlLayout class is the object used to contain a layout associated with the panel or the user preference default template layout
PnlParams	bqi-iCare.exe	The PnlParams class is the object used to contain the parameters associated with a panel definition
PtDocument	bqi-iCare.exe	The PtDocument class is the primary patient object based on the RPMS patient file
ToastHelper	bqi-iCare.exe	The ToastHelper class describes the arguments used for the event arguments when the user opens the Notifications form from the Notification window.
ToolSeparatorDrawFilter	bqi-iCare.exe	This ToolSeparateDrawFilter class provides a mechanism for changing properties on Begin new group on menu.
UltraColorPickerPlus	bqi-iCare.exe	The UltraColorPickerPlus class is a copy of Infragistic Color Picker modified to allow disabling of color selection tabs.
ultraGridToolBar	bqi-ultraGridToolBar.exe	The ultraGridToolBar class is a toolbar control that provides printing, exporting, copy, and search for a bound UltraGrid™ (Infragistics control).
ultraGridUtilities	bqi-ultraGridToolBar.exe	The ultraGridUtilities class is a grouping of methods by ultraGridToolBar.

14.0 Accessibility Checklist

14.1 Indian Health Service (IHS) Section 508 36 CFR Part §1194.21 Software Applications and Operating Systems Checklist

Software application and version: IHS iCare
Version 2.3.0.25

Manufacturer/Contractor/Developer: Vangent, Inc.

Tester: Vangent, Inc. Date: December 2011

- Fully Compliant (FC): All instances are Fully Compliant
- Non-Compliant (NC): All instances are Non-Compliant
- Partially Compliant (PC): Requires further explanation
- Not Applicable (N/A): Standard is not applicable to this application

Compliance is defined as meeting the requirement set forth in the Section 508 Technical Standards 36 CFR Part 1194, <http://www.access-board.gov/sec508/guide/>.

Any item not rated as fully compliant needs an explanation as to why the standard was not met. Enter the ID number and an explanation in the space provided at the end of the checklist.

ID	36 CFR Part 1194.21: Software Applications and Operating Systems Standards & Checklist Test Question	FC	PC	NC	N/A
1	<p>(a) When software is designed to run on a system that has a keyboard, product functions shall be executable from a keyboard where the function itself or the result of performing a function can be discerned textually.</p> <p>Can you navigate and use all aspects of the application using only the keyboard?</p>	FC-w/ minor			

ID	36 CFR Part 1194.21: Software Applications and Operating Systems Standards & Checklist Test Question	FC	PC	NC	N/A
2	<p>(b) Applications shall not disrupt or disable activated features of other products that are identified as accessibility features, where those features are developed and documented according to industry standards. Applications also shall not disrupt or disable activated features of any operating system that are identified as accessibility features where the application programming interface for those accessibility features has been documented by the manufacturer of the operating system and is available to the product developer.</p> <p>Are all of the accessibility options that were previously set still available?</p>	FC			
3	<p>(c) A well-defined on-screen indication of the current focus shall be provided that moves among interactive interface elements as the input focus changes. The focus shall be programmatically exposed so that Assistive Technology can track focus and focus changes.</p> <p>Is the focus well defined?</p>	FC			
	<p>Is there no evident change in on-screen focus as you navigate through one or more components of an application?</p>				
4	<p>(d) Sufficient information about a user interface element including the identity, operation and state of the element shall be available to Assistive Technology. When an image represents a program element, the information conveyed by the image must also be available in text.</p> <p>Can the screen reader distinguish and read all controls to the user, such as prompts for edit fields, text, radio buttons, checkboxes, menus, and toolbars?</p>		PC at present– Testing is Pending with Assistive Technology Products		
5	<p>(e) When bitmap images are used to identify controls, status indicators, or other programmatic elements, the meaning assigned to those images shall be consistent throughout an application's performance.</p> <p>Do individual icons used to identify controls, status indicators, or other programmatic elements mean the same thing throughout the application?</p>	FC			

ID	36 CFR Part 1194.21: Software Applications and Operating Systems Standards & Checklist Test Question	FC	PC	NC	N/A
6	<p>(f) Textual information shall be provided through operating system functions for displaying text. The minimum information that shall be made available is text content, text input caret location, and text attributes.</p> <p>Is all text presented in the application readable by assistive technologies?</p>	FC—Testing is Pending with Assistive Technology Products			
7	<p>(g) Applications shall not override user selected contrast and color selections and other individual display attributes.</p> <p>Does the software not override user-selected contrast and color selections and other individual display attributes or settings?</p>	FC			
8	<p>(h) When animation is displayed, the information shall be displayable in at least one non-animated presentation mode at the option of the user.</p> <p>If animated objects exist, does the information conveyed by the animated object exist in another mode, i.e., captions?</p>	FC			
9	<p>(i) Color coding shall not be used as the only means of conveying information, indicating an action, prompting a response, or distinguishing a visual element.</p> <p>If color is the sole means used to prompt a response, indicate an action, distinguish a visual element, or convey information, is the information displayed in another mode? For example: If the color red indicates negative numbers, are those numbers also represented with a negative sign (-)?</p>	FC			
10	<p>(j) When a product permits a user to adjust color and contrast settings, a variety of color selections capable of producing a range of contrast levels shall be provided.</p> <p>If users can adjust color and contrast settings, are a variety of color and contrast settings available to choose from?</p>				N/A
11	<p>(k) Software shall not use flashing or blinking text, objects, or other elements having a flash or blink frequency greater than 2 Hz and lower than 55 Hz.</p> <p>If any flashing or blinking objects or text occurs in the application, are the frequencies less than 2 Hz and greater than 55Hz?</p>	FC			

ID	36 CFR Part 1194.21: Software Applications and Operating Systems Standards & Checklist Test Question	FC	PC	NC	N/A
12	(I) When electronic forms are used, the form shall allow people using Assistive Technology to access the information, field elements, and functionality required for completion and submission of the form, including all directions and cues. Can you navigate and follow links and forms with the keyboard?	FC–Pending			
	Can the electronic forms be used with assistive technologies?				
	Can a screen reading program read all prompts, directions, explanations, or instructions on the form and understand the purpose of each field?				
13	Documentation Are all manuals and documentation provided in electronic format, as well as text files, including text descriptions of any charts, graphs, pictures, or graphics of any nature?	FC–Pending			

Enter the ID number and an explanation for any PC or NC results from above.

ID	Explanation
1	Currently all functionality in the application is accessible via keyboard except for changing sort order and applying list filters to DataGrid lists. Staff is working with the vendor of the DataGrid to find a way to make this functionality available by keyboard only, but it is not considered a critical functionality. The most important data lists have user customizable column order and sort screens that are accessible via the keyboard-only usage.
4	Testing with screen reading assistive technology software is pending. It is anticipated that the application will need some tweaking to work effectively with screen reading software; however, all components used in development claim to meet Section 508 compliance measures and each control makes accessibility-related properties available to help the screen reader software. Therefore the application will be able to meet compliance, but may need adjustments with respect to accessibility properties.
6	See comment on Item #4. One challenge for the iCare application is that by its very nature it involves working with long lists of patients, laboratory results, GPRA data, etc. which may be challenging to convey in a practical way via screen reading software, but the current design seems to be as appropriate as any for handling long lists.
10	iCare uses Windows® system or theme colors for all controls in the application, and does not offer any functionality within iCare itself to modify the colors, etc.
12	Testing is pending. See Comment #4 and #6.
13	All documentation is being prepared using IHS form templates and documentation standards and guidelines.

Application results:

Fully Compliant __ Partially Compliant __ Noncompliant __ N/A __

Additional Comments:

This initial review is based on application status prior to alpha/beta testing. Testing related to Section 508 compliance will continue and improvements will continue to be made prior to national release and potentially thereafter

Glossary

Care Management Event Tracking (CMET)

New functionality created in the BTPW namespace to implement event tracking for specific events from identification through patient notification. iCare is the first interface to use the CMET functionality.

Case File Manager(s)

The system owner(s) of the individual CM application. The case file manager(s) will have full security access to the application to perform various setup functions and assign access roles to other users.

Case Manager(s) (CM)

A term used to describe a particular type of clinical role within a clinic. Case managers are typically, but not always, nurses who perform clinical management tasks for specified groups of patients, e.g. diabetics.

Centers for Disease Control and Prevention (CDC)

An agency within the Department of Health and Human Services (HHS).

Center for Medicaid and Medicare Services (CMS)

An agency within the HHS.

Electronic Health Record (EHR)

An application used by medical organizations to track patient medical records and care.

Health Resources and Services Administration

An agency within the Department of Health and Human Services.

ICD Codes

One of several code sets used by the healthcare industry to standardize data. The International Classification of Disease (ICD) codes are an international diagnostic coding scheme. In addition to diseases, ICD also includes several families of terms for medical-specialty diagnoses, health status, disablements, procedures, and reasons for contact with HCPs. IHS currently uses ICD-9 for coding.

Improving Patient Care (IPC)

The Improving Patient Care program's aim is to change and improve the Indian Health System. IPC will develop high performing and innovative healthcare teams to improve the quality of and access to care. The IPC results will be a medical home that sets new standards for healthcare delivery and further advances the health and wellness of the American Indian and Alaska Native people. iCare is a tool used by the IPC healthcare teams to evaluate the quality of care and identify areas for improvement.

Meaningful Use (MU)

Meaningful Use (MU) is a term used by CMS to ensure that providers and hospitals that have adopted certified EHR are using the technology to further the goals of information exchange among health care professionals. Eligible Providers (EPs) and Eligible Hospitals (EHs) will achieve meaningful use if the EP or EH : (a) demonstrate use of certified EHR technology in a meaningful manner, (b) demonstrate the certified EHR technology provides for electronic exchange of health information to improve quality of care, and (c) use certified EHR technology to submit information on clinical quality and other measures.

Microsoft® (MS)

Software company that develops and distributes the Visual Studio® (VS) tool used to develop the iCare application.

Office of Information Technology (OIT)

The organization within IHS that is responsible for developing and maintaining RPMS and related IT functions.

PCC form

The paper form used in most I/T/U clinics on which the provider(s) document all data from the patient's visit. Used by data entry staff to enter patient data into RPMS PCC.

PCC+

The RPMS PCC+ software produces automated, customizable PCC forms.

Purpose of Visit (POV)

In RPMS, ICD codes and narrative describing the patient's purpose of visit (POV) are documented in PCC V POV.

Resource and Patient Management System (RPMS)

A series of integrated software components that includes clinical, administrative, and financial functions.

RPMS Patient Care Component (PCC)

Refers to functions within RPMS as a clinical data repository, storing visit-related data about a patient.

Software Quality Assurance (SQA)

The office within OIT responsible for ensuring that the system conforms to RPMS Programming Standards and Conventions (SAC).

Taxonomy

In RPMS, a grouping of functionally related data elements, such as ICD codes. For iCare, taxonomies will be used as definitions for diagnoses, procedures, laboratory tests, medications, and other clinical data types.

Text Integration Utility (TIU)

Refers to functions within RPMS used to store long blocks of text in the medical record.

Visual Studio® (VS)

Microsoft software development tool and integrated development environment (IDE) used to develop the iCare client application.

Acronym List

API	Application Programmer Interface
BQI	Namespace for iCare files and routines
CDC	Centers for Disease Control
CMET	Care Management Event Tracking
CMS	Center Medicaid and Medicare Services, an agency within IHS
COTS	Commercial off the Shelf, refers to commercially available software applications
CVD	Cardiovascular Disease
CVD MS	Cardiovascular Disease Management System
DOB	Date of Birth
DSM	Digital Standard Mumps
DX	Diagnosis
ED	Education
EHR	Electronic Health Record
GOTS	Government off the Shelf, refers to existing Government-owned and developed software applications
GPRA	Government Performance and Results Act
GUI	Graphical User Interface
HMS	HIV Management System
HRN	Health Record Number within RPMS
HRSA	Health Resource and Services Administrator

I/T/U	Abbreviation referring to all IHS direct, Tribal, and urban facilities. Using the abbreviation I/T/U generally refers to all components of the Indian healthcare system.
IDE	Integrated development environment
IHS	Indian Health Service
IPC	Improving Patient Care programs
ITSC	Information Technology Support Center currently referred to as Office of Information Technology (OIT)
MS	Microsoft [®]
MU	Meaningful Use
OIT	Office of Information and Technology
PCC	RPMS Patient Care Component
POV	Purpose of Visit
RCIS	RPMS Referred Care Information System
REM	Reminder
RPMS	Resource and Patient Management System
SAC	Standards and Conventions
SQA	Software Quality Assurance
SRD	Software Requirements Document
TIU	Text Integration Utility
V-file	Visit File
UI	User Interface
VMS	Virtual Memory System

VS

Visual Studio®

Contact Information

If you have any questions or comments regarding this distribution, please contact the OIT Help Desk (IHS).

Phone: (505) 248-4371 or (888) 830-7280 (toll free)

Fax: (505) 248-4363

Web: <http://www.ihs.gov/GeneralWeb/HelpCenter/Helpdesk/index.cfm>

Email: support@ihs.gov