RESOURCE AND PATIENT MANAGEMENT SYSTEM

iCare Population Management GUI

(BQI)

Installation Guide and Release Notes

Version 2.6
July 2017

Office of Information Technology (OIT)
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1.0   Release Notes

Version 2.6 is the twelfth release of the iCare application. The site should have already installed up to the latest version, which is Version 2.5 Patch 2. Version 2.6 includes functionality to fix reported problems and enhancements from the user requests via RPMS Feedback.

The intended audiences for the *Installation Guide and Release Notes* are Indian Health Service (IHS) site managers and other technical staff. Technical documentation accompanies this installation document in this release. Please refer to the *Technical Manual* for additional information.

The iCare system is an integrated case management system intended to provide any IHS direct, tribal, or urban (I/T/U) healthcare providers with decision support and patient management for single or multiple disease states and care conditions for a single patient or for user-defined groups of patients. iCare provides a graphical interface to existing Resource and Patient Management System (RPMS) data, presenting different views to include individual patient provider-defined groups, and population and community-centric views of patient data.

The iCare application allows providers to proactively track conditions and health statuses of their patients, any individual patient, or populations of patients, based on specific or multiple user-defined clinical concerns. A more complex and integrated level of logic for certain chronic conditions is defined in underlying RPMS components and is accessible through iCare to assist non-specialist providers in improving clinical decision-making and compliance with clinical guidelines. This type of integrated system provides a mechanism to inform healthcare providers about and follow up on clinical interventions and information about single or multiple disease states and conditions.

iCare is intended for use by both general and specialist healthcare providers, as well as disease-specific case managers at any I/T/U using RPMS. The experience and skill level of all hands-on users of RPMS will range from non-expert to expert. The providers' knowledge of clinical guidelines and disease-specific treatment will range from general to specialists.

iCare consists of two components–the RPMS M programming language and the graphical user interface (GUI)–both of which must be installed and functioning in order for this application to work.

2.0   Installation Notes

- **Prefix:** BQI
- **Current Version:** 2.6

> **Note**:   Read entire notes file (if included) prior to attempting any installation.

2.1   Contents of Distribution

Table 2-1 includes the contents' file names and their descriptions:

Table 2-1: Contents of Distribution

File	Description
bqi_0260.k	Version 2.6 KIDS installation file
bqi_026i.pdf	Installation Guide and Release Notes
bqi_026s.pdf	Security Manual
bqi_026t.pdf	Technical Manual
bqi_0260gui.zip	Version 2.6 GUI installation files in Compressed (zipped) Folder format
bqi_026u_cmet.pdf	User Manual – CMET
bqi_026u_hiv_aids.pdf	User Manual – Care Management – HIV/AIDS
bqi_026u_natl_measures.pdf	User Manual – National Measures
bqi_026u_panel_def.pdf	User Manual – Panel Definition
bqi_026u_panel_list.pdf	User Manual – Panel List
bqi_026u_panel_view.pdf	User Manual – Panel View
bqi_026u_patient_rec.pdf	User Manual – Patient Record
bqi_026u_taxonomy.pdf	User Manual – Taxonomy

2.2   Required Resources

2.2.1   RPMS

The RPMS server portion of the iCare application does not require a specific version, cache or operation system (OS). However, the RPMS server must be able to fully support BMXNet (BMX) 4.0 or higher, and is therefore subject to any requirements need to run that application. Please refer to the *BMX version 4.0 Technical Manual* for details.

> **Note**: iCare Version 2.5 Patch 2, and BDM*2.0*10 are required
> installs.

Table 2-2 shows required RPMS server software:

Table 2-2: RPMS Software

Module	Minimum Version
IHS ICD/CPT Lookup & Grouper (AICD)	4.0
Taxonomy (ATX)	5.1 Patch 20
VA FileMan (DI)	v22.0 Patch 1019
VA Kernel (XU)	v8.0 Patch 1018
BMXNet (BMX)	v4.0 Patch 4
IHS/VA Utilities (XB)	v3.0 through Patch 11
Patient Information Management System (PIMS)	v5.3 through Patch 1019
IHS Clinical Reporting (BGP)	v17.0
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
HIV Management System (BKM)	v2.2 Patch 1
IHS Asthma Register (BAT)	v1.0
IHS PCC Suite (BJPC)	v2.0 Patch 19
Referred Care Info System (BMC)	v4.0 Patch 11
Patient Registration (AG)	v7.2 Patch 5
Immunization (BI)	v8.5 Patch 13
iCare (BQI)	v2.5 Patch 2
IHS User Security Audit (BUSA)	v1.0
Diabetes Management System (BDM)	v2.0 Patch 10

2.2.2   GUI Client

Table 2-3 shows client workstation specification details:

Table 2-3: GUI client

Client PC	Minimum Versions
Microsoft® Windows® (any Windows OS that supports .NET 4.0 Framework)	Windows 7, Windows Vista, Windows XP SP2, Windows 2003 Server, Windows 2000 SP3+, Windows ME, Windows 98/98SE
Microsoft .NET Framework (The iCare installation package will check for the .NET framework prerequisite and will assist the user with download and installation if needed)	V4.0 (minimum client version)
Suggested client PC hardware	Processor: Minimum: Pentium III 800MHz Suggested: Pentium 4 2GHz+ Memory (RAM): Minimum: 2048MB Suggested: 4096MB+
Approximate disk space requirements	iCare application footprint ≈55MB

2.3   Before You Begin: Installation Issues

- Make a copy of this distribution for offline storage.

- Print all notes and readme files.

- Capture the terminal output during the installation using an auxport printer attached to the terminal where the software installation is performed to ensure a printed audit trail if any problems should arise.

3.0   Installation Instructions

iCare contains components that run on both the RPMS server and the client personal computer (PC). Installation of the RPMS server components is conventional and consists of a Kernel Installation and Distribution System (KIDS) build.

The client PC component is currently deployed via a standard Windows installation package application as an ".msi" file. New versions of the client software can be installed on the client PC as updates are available so that the client software version matches the version of iCare installed on the server. Previous versions of the client software will be automatically removed from the client workstation when the new version is installed. If desired, the iCare client may be uninstalled via the Windows control panel in the Add/Remove Programs option (for Windows XP and prior versions), or the Programs and Features option for Windows Vista or Windows 7 Select the entry in the list for the iCare version to uninstall, and click the **Uninstall** option.

In addition, the iCare client PC installation program will check for Microsoft .NET 4.0 Framework on the client PC, and if it has not been previously installed, it will assist with the download and installation as part of the iCare setup.

3.1   Special Considerations for Multi-Divisional Sites

Different facilities that use the same RPMS database are considered to be "multi-divisional" sites. Once installed the KIDS on the RPMS server, all facilities will be affected.

3.2   Before Installation

Determine the method of installing the new iCare GUI client for all iCare users. Refer to Section 4.0 for GUI Deployment Options for descriptions of some of the available deployment options, including options for automated installation.

Coordinate with all iCare users when the KIDS is going to be installed with the GUI, so the GUI is ready to go when the KIDS is installed.

This section provides instructions on how to install iCare.

3.3   Pre-installation Instructions

1. If possible, initially load the software into a test account, then into the production account. There are no routines or globals to remove after the installation is complete.

2. Refer to the RPMS Server Installation Instructions (Section 3.4) and the Sample RPMS Client Installation (Section 3.5) for the applicable prompts and user responses. User responses appear in bold type.

3. Ensure that the BMX system is installed and that a BMX monitor process is running. BMX's Integrated Security feature allows connection to RPMS without having to re-specify access and verify codes every time. For this feature to work, the integrated security field of the BMX monitor port must be set to Yes. See the BMX user and installation manuals for details on BMX.

3.4   RPMS Server Install Instructions

1. On the RPMS server, load and install bqi_0260.k file using the KIDS menu options. From the **KIDS** menu, select the **Installation** menu.

2. From the **Installation** menu, select **Option 1: Load a Distribution**.

3. Type **bqi_0260.k** at the "Enter a Host File" prompt (the file name might need to be preceded with the appropriate host path to retrieve from the appropriate software directory).

4. Type **Yes** (or press Enter to accept the default) at the "Want to Continue with Load? YES//" prompt.

5. KIDS file bqi_0260.k contains two KIDS builds bundled into one: ICARE MANAGEMENT SYSTEM 2.6

6. From the Installation menu, select **Option 2: Verify Checksums in Transport Global**, which provides a mechanism for ensuring the integrity of routines by verifying checksums for the components of the Transport global, and reports any errors uncovered.

7. Type **ICARE MANAGEMENT SYSTEM 2.6** as the install name.

   Optional: At this time, an optional election to exercise one of the following installation options is available. Use ICARE MANAGEMENT SYSTEM 2.6 as the install name.

   a. Back Up a Transport Global – creates a MailMan message that will back up all current routines on the system that would be replaced by this release (because this is a new release no files will be replaced).

   b. Compare Transport Global – previews all changes that will result from the installation of this patch and compares them with the values currently loaded on the system (routines, data dictionaries, templates, etc.).

8. From the Installation menu, select the **Install Packages(s)** option.

9. At the "Select Install Name" prompt, type **ICARE MANAGEMENT SYSTEM 2.6.**

10. Respond to the following prompts as indicated:

   a. At the "Want KIDS to Rebuild Menu Trees Upon Completion of Install? YES//" prompt, type **NO**.

   b. At the "Want KIDS to INHIBIT LOGONs during the install?//YES" prompt, type **NO**.

   c. At the "Want to DISABLE Scheduled Options, Menu Options and Protocols?// YES" prompt, type **NO**.

11. Type the device that will print the install messages. Exit the Installation menu.

Proceed to Section 5.0 for further information and setup instructions.

> **Note**:   Please read the Post-Installation notes for more information.

3.5   Client Installation

Determine the method of installing the GUI for all iCare users. Note that the bqi-iCareInstall-v2_6.msi file is a Microsoft installation file intended to be suitable for use with automated workstation install "push" technologies, such as Microsoft Active Directory Group Policy deployment. Refer to Section 4.0 for descriptions of some of the available deployment options, including options for automated installation.

The installation of the iCare client must be coordinated with the installation of the KIDS on the RPMS server so that the GUI is ready to be installed after the KIDS is installed.

To install the iCare Windows GUI client portion of the iCare application for a basic single-workstation, perform the following tasks:

1. Copy the bqi_0260gui.zip file into a local directory or centrally accessible network share directory, and extract its contents:

   a. **bqi-iCareInstall-v2_6.msi**

   b. **setup.exe**

2. Log into the client PC with administrator privileges.

3. Copy bqi-iCareInstall-v2_6.msi and setup.exe to the client PC from the network share directory.

4. Install the iCare software by executing setup.exe on the client PC.

5. When prompted with the **Destination Folder** dialog, click **Next** to confirm and complete the installation.

6. To run the iCare package:

7. Click **Start**.

   a. Choose **All Programs**.

   b. Select **IHS iCare**.

   c. Click **iCare**.

3.6   Sample RPMS Server Installation

> **Note**:   User responses appear in bold type.

As shown in Figure 3-1, an installation option must be selected to begin the installation process.

```
Select OPTION NAME: XPD MAIN   Kernel Installation & Distribution System

       Edits and Distribution ...
       Utilities ...
       Installation ...

Select Kernel Installation & Distribution System Option: Installation

   1     Load a Distribution
   2     Verify Checksums in Transport Global
   3     Print Transport Global
   4     Compare Transport Global to Current System
   5     Backup a Transport Global
   6     Install Package(s)
         Restart Install of Package(s)
         Unload a Distribution

Select Installation Option: 1  Load a Distribution
```

Figure 3-1: Selecting installation option

> **Note**:   iCare Version 2.5 Patch 2, and BDM*2.0*10 are required
>   installs.

```
Enter a Host File: d:\pub\bqi_0260.k <Enter> (Note: Type the appropriate
path for your system.)

KIDS Distribution saved on Mar 29, 2017@07:42:43
Comment: iCare Version 2.6 Iteration 2

This Distribution contains Transport Globals for the following Package(s):
   ICARE MANAGEMENT SYSTEM 2.6
   CARE MANAGEMENT EVENT TRACKING 1.2
Distribution OK!

Want to Continue with Load? YES//
Loading Distribution...

   ICARE MANAGEMENT SYSTEM 2.6
   CARE MANAGEMENT EVENT TRACKING 1.2
Use INSTALL NAME: ICARE MANAGEMENT SYSTEM 2.6 to install this Distribution.
```

```
    1       Load a Distribution
    2       Verify Checksums in Transport Global
    3       Print Transport Global
    4       Compare Transport Global to Current System
    5       Backup a Transport Global
    6       Install Package(s)
            Restart Install of Package(s)
            Unload a Distribution

Select Installation Option:



Select Installation Option: Verify Checksums in Transport Global <Enter>
```

Figure 3-2: Installation prompts

```
Select Installation Option: 2  Verify Checksums in Transport Global
Select INSTALL NAME: ICARE MANAGEMENT SYSTEM 2.6       Loaded from
Distribution
    3/29/17@16:08:09
      => iCare Version 2.6 Iteration 2  ;Created on Mar 29, 2017@07:42:43

This Distribution was loaded on Mar 29, 2017@16:08:09 with header of
    iCare Version 2.6 Iteration 2  ;Created on Mar 29, 2017@07:42:43
    It consisted of the following Install(s):
ICARE MANAGEMENT SYSTEM 2.6CARE MANAGEMENT EVENT TRACKING 1.2

Want each Routine Listed with Checksums: Yes// NO
DEVICE: HOME//   Virtual

PACKAGE: ICARE MANAGEMENT SYSTEM 2.6     Mar 29, 2017 4:09 pm        PAGE 1
-------------------------------------------------------------------------



    91 Routines checked, 0 failed.

PACKAGE: CARE MANAGEMENT EVENT TRACKING 1.2    Mar 29, 2017 4:09 pm  PAGE 1
-------------------------------------------------------------------------



    14 Routines checked, 0 failed.
```

Figure 3-3: Installing iCARE

As shown in Figure 3-4, other prompts are shown on subsequent installation pages.

```
Select Installation Option:
  1    Load a Distribution
  2    Verify Checksums in Transport Global
  3    Print Transport Global
  4    Compare Transport Global to Current System
  5    Backup a Transport Global
  6    Install Package(s)
```

```
        Restart Install of Package(s)
        Unload a Distribution
Select Installation Option: Install Package(s)
```

Figure 3-4: Installation options

3.6.1   Installation

```
Select INSTALL NAME: ICARE MANAGEMENT SYSTEM 2.6        Loaded from
Distribution
   3/30/17@06:01:08
     => iCare Version 2.6 Iteration 2  ;Created on Mar 29, 2017@07:42:43

This Distribution was loaded on Mar 30, 2017@06:01:08 with header of
   iCare Version 2.6 Iteration 2  ;Created on Mar 29, 2017@07:42:43
   It consisted of the following Install(s):
ICARE MANAGEMENT SYSTEM 2.6CARE MANAGEMENT EVENT TRACKING 1.2
Checking Install for Package ICARE MANAGEMENT SYSTEM 2.6

Install Questions for ICARE MANAGEMENT SYSTEM 2.6

Incoming Files:


   90505     ICARE USER
Note:  You already have the 'ICARE USER' File.


   90506     ICARE DEFINITIONS  (including data)
Note:  You already have the 'ICARE DEFINITIONS' File.
I will OVERWRITE your data with mine.


   90506.2   ICARE DIAGNOSIS CATEGORIES  (including data)
Note:  You already have the 'ICARE DIAGNOSIS CATEGORIES' File.
I will OVERWRITE your data with mine.


   90506.3   ICARE FILE DEFINITION  (including data)
Note:  You already have the 'ICARE FILE DEFINITION' File.
I will OVERWRITE your data with mine.


   90506.9   ICARE TIMEFRAMES  (including data)
Note:  You already have the 'ICARE TIMEFRAMES' File.
I will OVERWRITE your data with mine.


   90507.2   ICARE MEASUREMENTS DEFINITIONS  (including data)

Want KIDS to Rebuild Menu Trees Upon Completion of Install? NO//

Checking Install for Package CARE MANAGEMENT EVENT TRACKING 1.2

Install Questions for CARE MANAGEMENT EVENT TRACKING 1.2

Incoming Files:


   90621     CM EVENT  (including data)
Note:  You already have the 'CM EVENT' File.
I will OVERWRITE your data with mine.


   90621.1   CM EVENT FILE TYPE  (including data)
Note:  You already have the 'CM EVENT FILE TYPE' File.
I will OVERWRITE your data with mine.
```

```
   90621.2   CM EVENT CATEGORY  (including data)
Note:  You already have the 'CM EVENT CATEGORY' File.
I will OVERWRITE your data with mine.

Want KIDS to Rebuild Menu Trees Upon Completion of Install? NO//

Want KIDS to INHIBIT LOGONs during the install? NO//
Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO//

Enter the Device you want to print the Install messages.
You can queue the install by enter a 'Q' at the device prompt.
Enter a '^' to abort the install.

DEVICE: HOME//   Virtual

 Install Started for ICARE MANAGEMENT SYSTEM 2.6 :
               Mar 30, 2017@06:01:19

Build Distribution Date: Mar 29, 2017

 Installing Routines:
               Mar 30, 2017@06:01:21

 Running Pre-Install Routine: ^BQI26PRE

 Installing Data Dictionaries:
               Mar 30, 2017@06:01:21

 Installing Data:
               Mar 30, 2017@06:01:22

 Installing PACKAGE COMPONENTS:

 Installing REMOTE PROCEDURE:

 Installing OPTION:
               Mar 30, 2017@06:01:23

 Running Post-Install Routine: ^BQI26POS
Updating [BQI TB QUANTIFERON LOINC] taxonomy...
Creating [BQI PROSTATE SCRN CPTS] taxonomy...
Creating [BQI PSA LOINC CODES] taxonomy...
Creating [BQI PROSTATE BIOPSY CPTS] taxonomy...
Creating [BQI PROSTATE ULTRASOUND CPTS] taxonomy...
Updating [BTPW MAMMOGRAM BI DX CPTS] taxonomy...
Updating [BTPW MAMMOGRAM SCREEN CPTS] taxonomy...
Updating [BTPW MAMMOGRAM UNI DX CPTS] taxonomy...

 Updating Routine file...

 Updating KIDS files...

 ICARE MANAGEMENT SYSTEM 2.6 Installed.
               Mar 30, 2017@06:01:24

 Not a VA primary domain

 NO Install Message sent


 Install Started for CARE MANAGEMENT EVENT TRACKING 1.2 :
               Mar 30, 2017@06:01:24
```

```
Build Distribution Date: Mar 29, 2017

 Installing Routines:
              Mar 30, 2017@06:01:25

 Running Pre-Install Routine: ^BTPW12PR

 Installing Data Dictionaries:
              Mar 30, 2017@06:01:26

 Installing Data:
              Mar 30, 2017@06:01:26

 Installing PACKAGE COMPONENTS:

 Installing REMOTE PROCEDURE:

 Installing OPTION:
              Mar 30, 2017@06:01:26

 Running Post-Install Routine: ^BTPW12PS

 Updating Routine file...

 Updating KIDS files...

 CARE MANAGEMENT EVENT TRACKING 1.2 Installed.
              Mar 30, 2017@06:01:26

 Not a VA primary domain

 NO Install Message sent

Install Completed
```

Figure 3-5: Installation Completed

3.7   Sample GUI Client Installation

The following section outlines the installation procedure for loading the iCare GUI client application onto a single workstation. Options are available to install the iCare client on multiple workstations through automated deployment methods. Please refer to Section 4.0 GUI Deployment Options for descriptions of these other options.

1. As shown in Figure 3-6, navigate to the folder on the client machine that contains the iCare installation program and launch the **setup.exe** program:
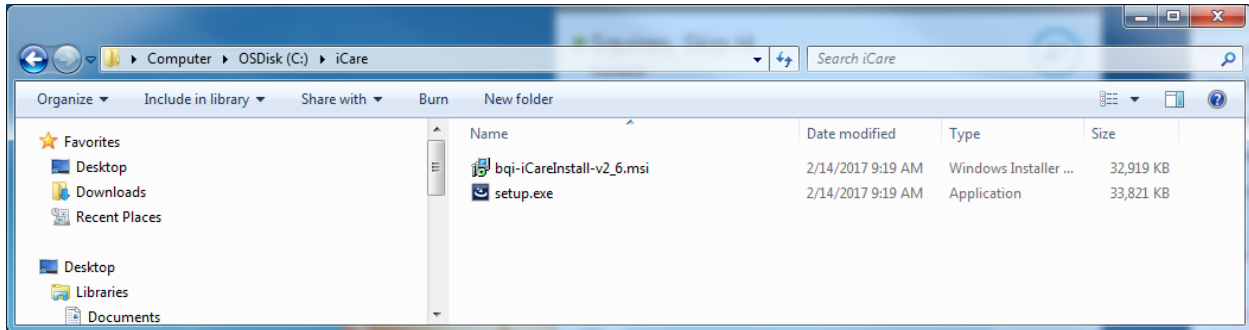
Figure 3-6: Setup.exe program

> 2. As shown in Figure 3-7, click **Next** on the Welcome screen to continue.

Figure 3-7: Welcome screen

> 3. As shown in Figure 3-8, click **Next** on the **Destination Folder** screen to continue.
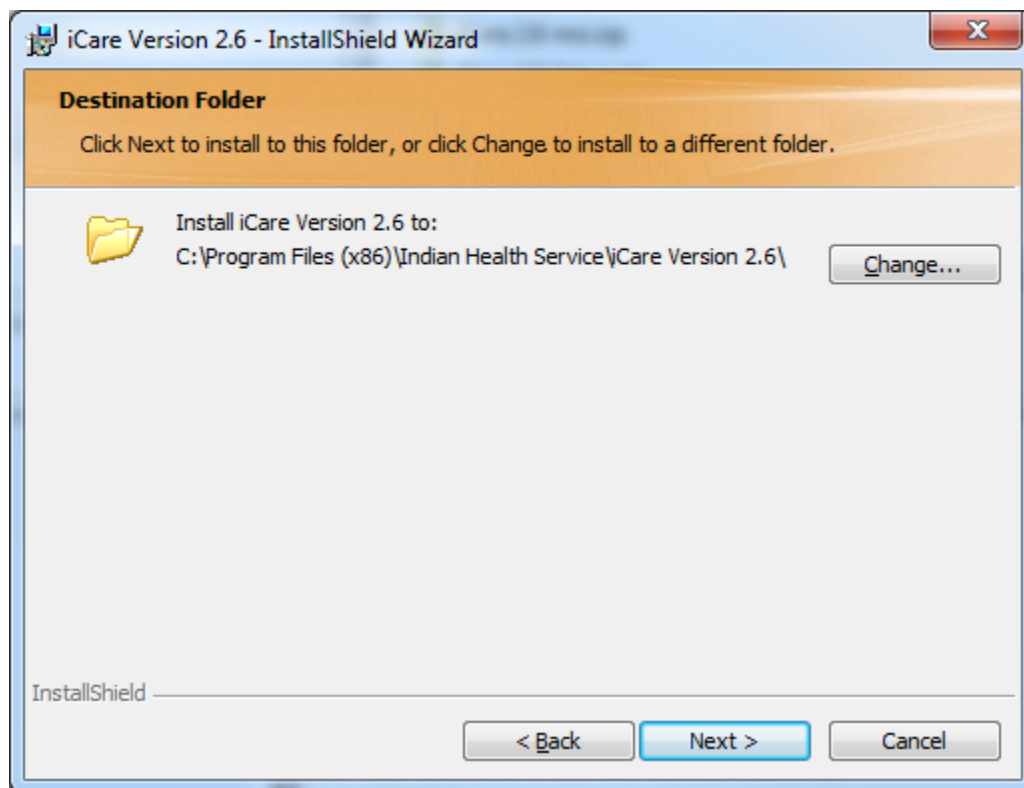
Figure 3-8: Install Destination Folder screen

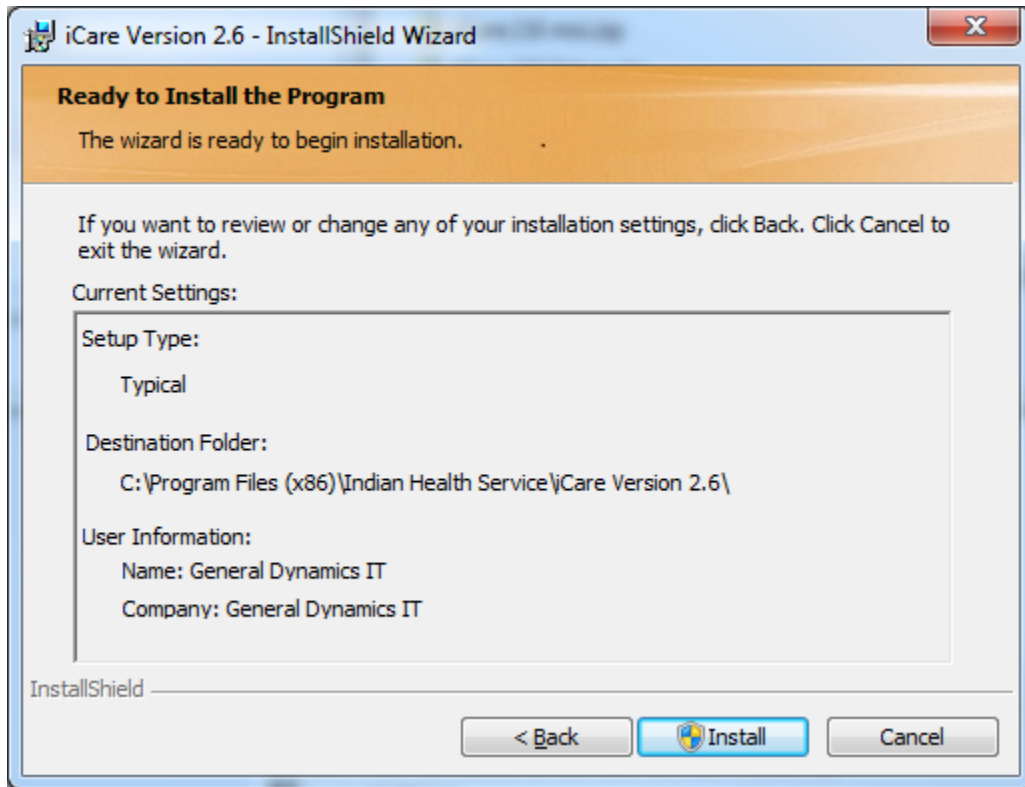4. As shown in Figure 3-9, click **Install** to confirm installation.

Figure 3-9: Confirm Installation screen

5.   As shown in Figure 3-10, click **Finish** to complete the installation.
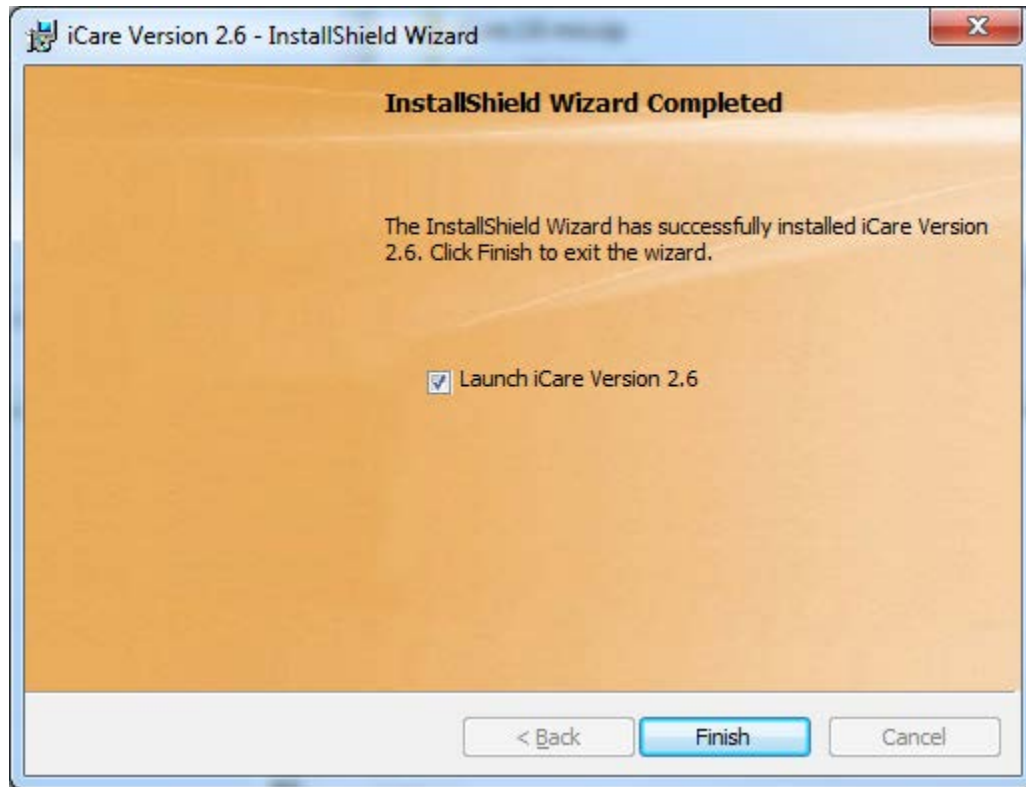
Figure 3-10: Installation Complete screen

3.8   Disk Space

Auditing was implemented for Certification and for each iCare release after v2.3 Patch 4; be aware of disk space. See *IHS User Security Audit 1.0* manual for more information.

3.9   Journaling

The main iCare patient data global ^BQIPAT does not need to be journaled, as it can be refreshed if needed. For Care Management Event Tracking (CMET), data global ^BTPWPQ does not need to be journaled as it also can be refreshed, if needed.

If the site is being upgraded to Ensemble® or other higher version of cache, the ^BQIPAT and ^BTPWPQ globals should be placed in the same special non-journaled database as globals TMP and XTMP.

4.0   GUI Deployment Options

There are several methods available to deploy the iCare GUI application. The installation package is created as an ".msi" file, which provides wide compatibility with automated deployment approaches.

4.1   Basic Single-Workstation Installation

The basic single-workstation procedure is outlined in Section 3.7. Step-by-step instructions are provided for executing the iCare GUI client install package to install directly on a user's workstation.

4.2   Terminal Services/Citrix Server Installation

For sites that use thin client/terminal services such as Citrix® or Microsoft Terminal Services to manage application delivery, the update process for multiple users is simplified, as the iCare client version will only need to be updated on the terminal server machines via standard application install procedures for publishing applications.

4.3   Windows SMS

Some IHS sites may utilize Microsoft Systems Management Server (SMS) to assist with management of software on desktop machines. The iCare GUI client installation files were created with automated deployment in mind and should be compatible with SMS deployment. The iCare GUI client install is provided as an ".msi" Microsoft installer package, along with a setup.exe file that provides .Net bootstrapping to check for installed .Net framework environment, if required.

Based on site administrator feedback from previous versions, the default behavior for the .msi installation includes the automatic removal of previous iCare GUI versions to simplify the deployment process.

The details of deploying/publishing applications via SMS are beyond the scope of this document. Please refer to the Microsoft SMS documentation to identify the procedure to deploy the application with appropriate installation options such as silent install, etc.

4.4   Active Directory Application Deployment

Microsoft Active Directory is another option for deploying the iCare GUI Client to desktops through an automated process. To use this method, the installation files are placed in a shared network folder that allows at least reader access for all users that will be installing the application. Once this has been created, an Active Directory administrator can go into the Group Policy Editor and assign the application to the appropriate group(s) of users, or machines that are registered in the Active Directory.

Additional details and a walk-through of this process are available:

Windows 2000 Server
http://support.microsoft.com/kb/314934/

Windows 2003 Server
http://support.microsoft.com/kb/816102

General Walk-through
http://www.windowsnetworking.com/articles_tutorials/Group-Policy-Deploy-Applications.html

4.5   Command Line Argument Options

Command-line arguments are available to provide additional options for managing the server connection list that is provided to the user upon login.

If no command-line arguments are provided, the application will present a blank server connection list and allow the user to enter new connection entries that will be stored in the user's Windows roaming local application folder. The roaming local application folder was chosen based feedback from sites using Citrix thin-client deployments.

The available arguments are defined below. The options may be used together to achieve desired server connection management results.

4.5.1   /configpath:{File path}

```
Example:
"C:\Program Files (x86)\Indian Health Service\iCare Version 2.6\bqi-
iCare.exe" /configpath:\\appserver1\shared\iCareConfig\
```

Figure 4-1: Configuration path

When the "/configpath" argument is specified as shown in Figure 4-1, the application will check in the defined file path location for the server connection configuration file named bmx_config.xml. If a configuration file is found, then it will load the connection items for the user to select from in the login screen. If no configuration file is found and the folder path specified is a valid then a new blank bmx_config.xml configuration file will be created in that location and changes will be stored and managed at that location.

The file location may be any valid storage location, including network shares and local system directories. The user must however have read/write access to the directory.

If an invalid directory is specified, the application will present a message indicating that the location is not valid, and it will ignore the parameter and use the default location.

4.5.2   /lockedit

```
Example:
bqi-iCare.exe /lockedit
```

Figure 4-2: Lockedit argument

When the "/lockedit" argument is included as shown in Figure 4-2, the application will disallow the user from editing the defined server connection information, and will be limited to the items that are defined in the drop-down list.

The /lockedit argument is useful in conjunction with the "/configpath" argument specified above to achieve a centrally-managed configuration in which users are not allowed to edit the shared configuration file. Refer to section 4.5.4 for more details.

4.5.3   /rpms:

```
Example:
bqi-iCare.exe /rpms:"server1,10501,MyServer
Connection,PRD1,Win,60000,40000"
```

Figure 4-3: RPMS argument

The "/rpms" argument as shown in Figure 4-3, allows the specification of a specific server connection entry to be passed into the application from the command-line. The entry that is specified will appear as an entry in the server connection drop-down list. This argument may be used in conjunction with the "lockedit" option to force the user to connect to a single specific location.

The comma-delimited arguments are:

- Server Address (Numeric IP or server name)

- Port Number for the BMXNet listener

- Display name of connection (This will be the title used in the drop-down list)

- Namespace (optional)

- Windows Authentication (set to Win for Windows authentication)

- Receive Timeout (in milliseconds, recommended 60000)

- Send Timeout (in milliseconds, recommended 40000)

4.5.4   Setting Up a Central Shared Server Configuration List

Site managers may choose to implement a central bmx_config.xml configuration file to be shared by multiple users; new users will not need to enter the server configuration settings when first connecting the iCare GUI to the RPMS server(s). Also, if configuration changes are made to the RPMS server such as a change or network address or BMXNet port number, the changes can be centrally managed by editing the single configuration file.

To configure this approach, the following steps may be followed:

1. An administrator should create the bmx_user_config.xml file with the server connections that are desired.

    a. Install iCare GUI on one client machine and configure the BMX connection(s) via the BMX connection tool.

    b. Find the bmx_user_config.xml file on the client machine after you have setup the valid connection(s) by searching within the Users folder for bmx*.xml. A sample file location is shown as an example:

```
Example:
C:\Users\firstname.lastname\AppData\Roaming\IndianHealthService\iCare\bmx_u
ser_config.xml
```

Figure 4-4: RPMS argument

```
Example:

<?xml version="1.0" ?>
  - <ArrayOfRpmsConnectionSpec xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
    <RpmsConnectionSpec Name="DEV6" Server="DEMOSRVR01"
ReceiveTimeout="900000" SendTimeout="40000" Port="10561" NameSpace="DEV6"
IsDefault="false" UseWindowsAuthentication="false"
UseDefaultNamespace="false" />
    <RpmsConnectionSpec Name="TEST6" Server="DEMOSRVR01"
ReceiveTimeout="900000" SendTimeout="40000" Port="10562" NameSpace="TEST6"
IsDefault="false" UseWindowsAuthentication="false"
UseDefaultNamespace="false" />
    </ArrayOfRpmsConnectionSpec>
```

Figure 4-5: RPMS argument

2. The administrator should start the iCare application using the /configpath command line argument to specify the network location where the file is to be stored.

3. Then, the administrator can specify the connection(s) that are desired to be available to the users sharing this configuration file.

> **Note**:   After signing in to the iCare GUI application, the file at the specified /configpath location will contain the connection entries that were entered.

4. Once the bmx_config.xml file has been created in the desired shared location with the appropriate connection entries, each user's application shortcut/launch string should be edited to include the same /configpath location so that the connection settings are loaded when the user starts the application.

> **Note**: It is recommended that the /lockedit argument also be used so that users sharing the central configuration file are not allowed to edit that file, but instead can only select from the available choices.

5. If you are pushing the iCare application via .msi or other Active Directory approach and can edit the shortcut, add the parameter from section 4.5.4 using the /configpath parameter from Section 4.5.1 to identify the shared configuration file.

6. The /configpath parameter should be added to each user's iCare shortcut as shown below. The /configpath value should be the shared folder where the shared bmx_user_config.xml file is stored. The shortcut with parameter would have to be updated this way for each iCare user's GUI instance.

    Alternatively, you could copy the standard bmx_user_config.xml file (based on the first user you setup to define the connections) to each user's AppData location rather than having to create the connection for each user.

    ...\AppData\Roaming\IndianHealthService\iCare\

5.0   Post-Installation Configuration Instructions

After the install of this version, three background jobs will be set up in TaskMan. These background jobs are to set up the POV and SNOMED subset counts and to calculate the data for the new Diagnostic Tags; Glaucoma and the different stages of Chronic Kidney Disease.

```
1079896: POV^BQINIGH3, Count Compile.  No device.  TEST8,PRECERT.
         From Today at 6:25,  By you.  Scheduled for Today at 6:28
         --------------------------------------------------------------------
1079897: SNO^BQINIGH3, Count Compile.  No device.  TEST8,PRECERT.
         From Today at 6:25,  By you.  Scheduled for Today at 6:28
         --------------------------------------------------------------------
1079895: DXC^BQITASK2, Update Diagnostic Tags.  No device.  TEST8,PRECERT.
         From Today at 6:25,  By you.  Scheduled for Today at 6:35
```

Figure 5-1: POV and SNOMED subsets

If these jobs are terminated OR do not finish, the data that the users will see will be incomplete until either the Nightly job or the Weekly job runs.

Contact Information

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

Phone: (888) 830-7280 (toll free)

Web: http://www.ihs.gov/helpdesk/

Email: support@ihs.gov