



RESOURCE AND PATIENT MANAGEMENT SYSTEM

# **iCare Population Management GUI**

(BQI)

## **Installation Guide and Release Notes**

Version 2.3  
April 2012

Office of Information Technology (OIT)  
Division of Information Resource Management  
Albuquerque, New Mexico

# Table of Contents

<b>1.0</b>	<b>Release Notes .....</b>	<b>1</b>
<b>2.0</b>	<b>Installation Notes.....</b>	<b>2</b>
2.1	Contents of Distribution .....	2
2.2	Required Resources .....	2
2.2.1	RPMS .....	2
2.2.2	GUI Client.....	3
2.3	Before You Begin: Installation Issues .....	4
<b>3.0</b>	<b>Installation Instructions .....</b>	<b>5</b>
3.1	Disk Space .....	5
3.2	Journaling .....	6
<b>4.0</b>	<b>Installation Instructions .....</b>	<b>7</b>
4.1	Pre-installation.....	7
4.2	RPMS Server Install .....	7
4.3	Client Installation .....	8
4.4	Sample RPMS Server Installation.....	9
4.4.1	Installation .....	11
4.5	Sample GUI Client Installation.....	14
<b>5.0</b>	<b>GUI Deployment Options .....</b>	<b>19</b>
5.1	Basic Single-Workstation Installation.....	19
5.2	Terminal Services/Citrix Server Installation .....	19
5.3	Windows SMS .....	19
5.4	Active Directory Application Deployment.....	20
5.5	Command Line Argument Options.....	20
5.5.1	/configpath:"{File path}" .....	20
5.5.2	/lockedit .....	21
5.5.3	/rpms: .....	21
5.5.4	Setting up a central shared server configuration list.....	22
<b>6.0</b>	<b>Post-Installation Configuration Instructions.....</b>	<b>23</b>
6.1	Automatic Post-Installation Jobs.....	23
6.1.1	Meaningful Use Provider Clinical Quality.....	23
6.1.2	Improving Patient Care Collaborative (IPC) Monthly Data Calculation .....	24
	.....	24
	<b>Contact Information .....</b>	<b>25</b>

## 1.0 Release Notes

Version 2.3 is the sixth release of the iCare application. The site should have already installed up to the latest version, which is Version 2.2 Patch 1. This version includes functionality to incorporate the new IPC information and user requests from the iCare workgroup.

The intended audiences for this document are IHS site managers and other technical staff. Technical documentation accompanies this installation document in this release. Please refer to the iCare Technical Document v2.3.doc 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.

iCare 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:** 2.3

Read entire notes file (if included) prior to attempting any installation.

### 2.1 Contents of Distribution

The following includes the contents' file names and their descriptions:

File	Description
bqi_0230.k	Version 2.3 KIDS installation file
bqi_023i.pdf	Version 2.3 Installation Manual
bqi_023t.pdf	Version 2.3 Technical Manual
bqi_023u_ipc.pdf	Version 2.3 User Manual (Improving Patient Care)
bqi_023u_enhance.pdf	Version 2.3 User Manual (Enhance)
bqi_023u_mu.pdf	Version 2.3 User Manual (Meaningful Use)
bqi_0230iCareGUI.zip	Version 2.3 GUI installation files in WINZIP format

### 2.2 Required Resources

#### 2.2.1 RPMS

The RPMS server portion of the iCare application does not require a specific version or 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:** Releases BQI\*2.2\*1, IHS CLINICAL REPORTING 12.0 and BMX 4.0 are all pre-requisites for iCare Version 2.3.

**Required RPMS server software:**

Module	Minimum Version
VA FileMan (DI)	v22.0 Patch 1003
VA Kernel (XU)	v8.0 Patch 1015

<b>Module</b>	<b>Minimum Version</b>
BMXNet (BMX)	v4.0
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
IHS Asthma Register (BAT)	v1.0
IHS PCC Suite (BJPC)	v2.0 Patch 6
Referred Care Info System (BMC)	v4.0 Patch 5
Patient Registration (AG)	v7.1 Patch 10
Immunization (BI)	v8.4 Patch 2
iCare (BQI)	v2.2 Patch 1

## 2.2.2 GUI Client

Client workstation specification details:

<b>Client PC</b>	<b>Minimum Versions</b>
Microsoft Windows (any Windows OS that supports .NET 2.0 Framework)	Windows 7, 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)	V2.0
Suggested Client PC Hardware	Processor: Minimum: Pentium III 800MHz Suggested: Pentium 4 2GHz+ Memory (RAM): Minimum: 1024MB Suggested: 2048MB+
Approximate Disk Space Requirements	iCare Application Footprint ~40MB .NET 2.0 Framework ~ 120MB (if not already installed via Windows Updates)

## 2.3 Before You Begin: Installation Issues

- Make a copy of this distribution for offline storage.
- Print all notes/readme files.
- Capture the terminal output during the installation using an auxport printer attached to the terminal at which you are performing the software installation. This will 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 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. Simply select the entry in the list for the iCare version you wish to uninstall, and click the Uninstall option.

In addition, the iCare client PC installation program will check for Microsoft .NET 2.0 Framework on the client PC, and if it has not been previously installed, it will assist you with download and installation as part of the iCare setup.

### *Special Considerations for Multi-Divisional Sites*

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

### *Before Installation:*

Determine the method of installing the new iCare GUI client for all iCare users. Refer to Section 5.0 in this document 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.

After installing KIDS, the post-installation job needs to run to initialize the Meaningful Use data (MU).

## 3.1 Disk Space

With version 2.3 of iCare and the addition of IPC, you will need additional space to hold your provider information. The number of events depends on the size of your facility and the number of DPCP providers.

The size for one provider is about 9 kilobytes, so to estimate the amount of space needed for your facility, find all active providers with the ORES security key and multiple that number by 10. This should give you the minimum amount of space needed for the iCare MU data.

## 3.2 Journaling

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

If your site is being upgraded to Ensemble or other higher version of cache, these globals should be placed in the same special non-journaled database as global, TMP.

## 4.0 Installation Instructions

### 4.1 Pre-installation

- 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.
- Refer to the Installation Steps (Section 4.2) and the Sample Installation (Section 4.5) for the applicable prompts and user responses. User responses appear in bold type.
- Ensure that the BMX system is installed and that a BMX monitor process is running. BMX's Integrated Security feature allows you to connect 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.

### 4.2 RPMS Server Install

1. On the RPMS server, load and install bqi\_0230.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\_0230.k** at the "Enter a Host File" prompt. You might need to precede the file name with the appropriate host path. This is the file to retrieve from the appropriate software directory.
4. Type **Yes** (or press the ENTER key to accept the default) at the "Want to Continue with Load? YES//?" prompt.
5. KIDS file bqi\_0230.k contains two (2) separate KIDS builds bundled into one:  
  
ICARE MANAGEMENT SYSTEM 2.3  
  
BTPW\*1.0\*2
6. From the **Installation** menu, select **Option 2: Verify Checksums in Transport Global**. This option provides a mechanism for ensuring the integrity of your routines. It verifies checksums for the components of the Transport global, and reports any errors uncovered.
7. Type **ICARE MANAGEMENT SYSTEM 2.3** as the install name.

Optional: At this time, you can elect to exercise one of the following installation options. Please note these are optional. If you elect to use one of these, use **ICARE MANAGEMENT SYSTEM 2.3** as the install name.

- a. Back Up a Transport Global – this option creates a MailMan message that will back up all current routines on your system that would be replaced by this release. (Because this is a new release no files will be replaced.)
  - b. Compare Transport Global – this option allows you to view all changes that will result from the installation of this patch and compares them with the values currently loaded on your 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 2.3**.
  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 6.0 for further information and setup instructions.

Please read the Post-Installation notes for more information.

## 4.3 Client Installation

Determine the method of installing the GUI for all iCare users. Note that the bqi-iCareInstall-v2\_3.msi file is a Microsoft Installation file intended to be suitable for use with automated workstation install “push” technologies, such as MS Active Directory Group Policy deployment. Refer to Section 5.0 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\_0230iCareGUI.zip file into a local directory or centrally accessible network share directory, and extract its contents:
  - a. bqi-iCareInstall-v2\_3.msi
  - b. setup.exe
2. Log into the client PC with administrator privileges.
3. Copy bqi-iCareInstall-v2\_3.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 **Select Installation Folder** dialog, select the **Everyone** option to install for all users on the workstation, or click **Just Me** to install only for the user that is currently logged in. Press **Next** to confirm and complete the installation.
6. To run the iCare package:
  - a. Click **Start**.
  - b. Choose **All Programs**.
  - c. Select **IHS iCare**.
  - d. Click **iCare**.

## 4.4 Sample RPMS Server Installation

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

```
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 4-1: Selecting installation option

**Note:** iCare version 2.2 Patch 1 and BGP\*11.1\*1 are required installs.

Other prompts are shown below:

```
Enter a Host File: d:\rpms_tst\bqi_0230.k <Enter> (Note: Type the appropriate path
for your system.)

KIDS Distribution saved on Mar 29, 2012@08:11:56
Comment: iCare Population Management GUI Version 2.3

This Distribution contains Transport Globals for the following Package(s):
  ICARE MANAGEMENT SYSTEM 2.3
  BTPW*1.0*2
Distribution OK!

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

  ICARE MANAGEMENT SYSTEM 2.3
  BTPW*1.0*2
Use INSTALL NAME: ICARE MANAGEMENT SYSTEM 2.3 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>
```

Other prompts are shown on subsequent pages:

```
Select Installation Option: 2 Verify Checksums in Transport Global
Select INSTALL NAME: ICARE MANAGEMENT SYSTEM 2.3      Loaded from Distribution
Loaded from Distribution 3/15/12@11:48:48
=> iCare Population Management GUI Version 2.3 ;Created on Mar 29, 2012@

This Distribution was loaded on Mar 29, 2012@11:48:48 with header of
iCare Population Management GUI Version 2.3 ;Created on Mar 29, 2012@08:11:5
6
It consisted of the following Install(s):
ICARE MANAGEMENT SYSTEM 2.3      BTPW*1.0*2

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

```

PACKAGE: ICARE MANAGEMENT SYSTEM 2.3      Mar 29, 2012 11:49 am      PAGE 1
-----

136 Routines checked, 0 failed.

PACKAGE: BTPW*1.0*2      Mar 29, 2012 11:49 am      PAGE 1
-----

9 Routines checked, 0 failed.

```

Figure 4-2: Installing iCARE

Other prompts are shown on subsequent 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 4-3: Installation options

#### 4.4.1 Installation

```

Select INSTALL NAME: ICARE MANAGEMENT SYSTEM 2.3      Loaded from Distribution
Loaded from Distribution 3/15/12@11:38:27
=> iCare Population Management GUI Version 2.3 ;Created on Mar 29, 2012@

This Distribution was loaded on Mar 29, 2012@11:38:27 with header of
iCare Population Management GUI Version 2.3 ;Created on Mar 29, 2012@08:11:56
It consisted of the following Install(s):
ICARE MANAGEMENT SYSTEM 2.3      BTPW*1.0*2
Checking Install for Package ICARE MANAGEMENT SYSTEM 2.3

Install Questions for ICARE MANAGEMENT SYSTEM 2.3

Incoming Files:

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

```

```
90505.2  ICARE ROLES (including data)
Note: You already have the 'ICARE ROLES' File.
I will OVERWRITE your data with mine.

90505.4  ICARE MU PROVIDER
Note: You already have the 'ICARE MU PROVIDER' File.

90505.6  ICARE MU FACILITY
Note: You already have the 'ICARE MU FACILITY' File.

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

90506.1  ICARE PANEL VIEW
Note: You already have the 'ICARE PANEL VIEW' File.

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.

90506.4  ICARE GUI TABS (including data)
Note: You already have the 'ICARE GUI TABS' File.
I will OVERWRITE your data with mine.

90506.5  ICARE VIEW SOURCE (including data)
Note: You already have the 'ICARE VIEW SOURCE' File.
I will OVERWRITE your data with mine.

90506.7  ICARE STARTUP TABS (including data)
Note: You already have the 'ICARE STARTUP TABS' File.
I will OVERWRITE your data with mine.

90506.8  ICARE IPC CATEGORIES (including data)

90507.6  ICARE COMMUNITY ALERTS
Note: You already have the 'ICARE COMMUNITY ALERTS' File.

90508    ICARE SITE PARAMETERS
Note: You already have the 'ICARE SITE PARAMETERS' File.

90508.1  ICARE USER TEMPLATES
*BUT YOU ALREADY HAVE 'ICARE SITE LAYOUTS' AS FILE #90508.1!
Shall I write over your ICARE SITE LAYOUTS File? YES// Y <enter>
```

```
90508.2 ICARE GLOSSARIES (including data)
Note: You already have the 'ICARE GLOSSARIES' File.
I will OVERWRITE your data with mine.

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

Checking Install for Package BTPW*1.0*2

Install Questions for BTPW*1.0*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.

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// VT

Install Started for ICARE MANAGEMENT SYSTEM 2.3 :
Mar 29, 2012@11:39:10

Build Distribution Date: Mar 29, 2012

Installing Routines:
Mar 29, 2012@11:39:12

Running Pre-Install Routine: ^BQI23PRE

Installing Data Dictionaries: .
Mar 29, 2012@11:39:13

Installing Data:
Mar 29, 2012@11:39:15

Installing PACKAGE COMPONENTS:

Installing SECURITY KEY

Installing REMOTE PROCEDURE

Installing OPTION
Mar 29, 2012@11:39:17

Running Post-Install Routine: ^BQI23POS.....
```

```

Creating [BQI MMR IZ CVX CODES] taxonomy...

Updating Routine file...

Updating KIDS files...

ICARE MANAGEMENT SYSTEM 2.3 Installed.
      Mar 29, 2012@11:39:39

Not a VA primary domain

NO Install Message sent

Install Started for BTPW*1.0*2 :
      Mar 29, 2012@11:39:39

Build Distribution Date: Mar 29, 2012

Installing Routines:
      Mar 29, 2012@11:39:39

Running Pre-Install Routine: PRE^BTPW12PS

                                BTPW*1.0*2
-----

Installing Data Dictionaries:
      Mar 29, 2012@11:39:39

Installing Data:
      Mar 29, 2012@11:39:40

Running Post-Install Routine: POS^BTPW12PS

Updating Routine file...

Updating KIDS files...

BTPW*1.0*2 Installed.
      Mar 29, 2012@11:39:41

Not a VA primary domain

NO Install Message sent

-----
100%  [-----]
Complete [-----]

```

Figure 4-4: Installation Completed

## 4.5 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 5.0 GUI Deployment Options for descriptions of these other options.

1. Navigate to the folder on the client machine that contains the iCare installation program and launch the setup.exe program:

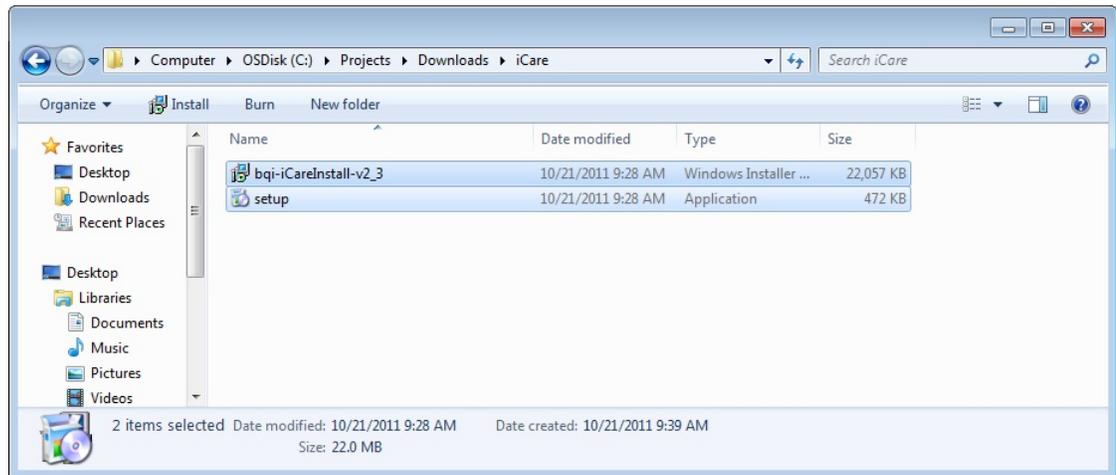


Figure 4-5: Setup.exe program

2. Click **Next** on the **Welcome** screen to continue.

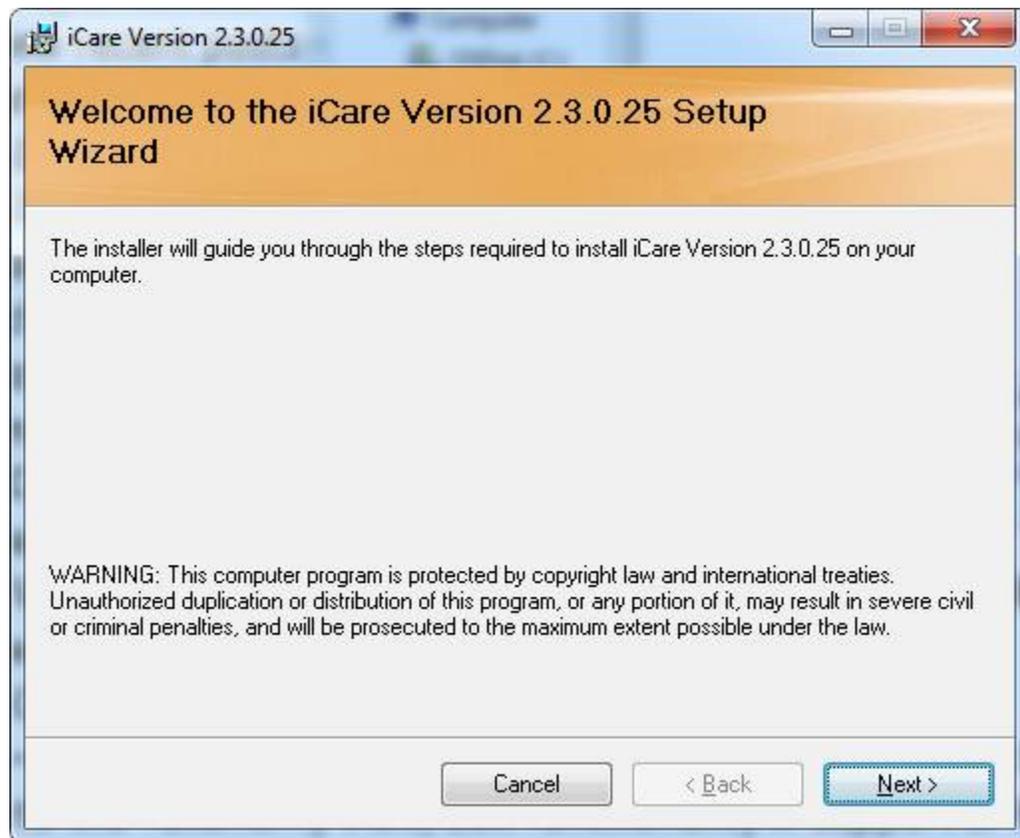


Figure 4-6: Welcome screen

3. In the **Select Installation Folder** screen, you can choose to install for everyone (all users of that machine) or only for the current user's account. Click **Next** to continue.

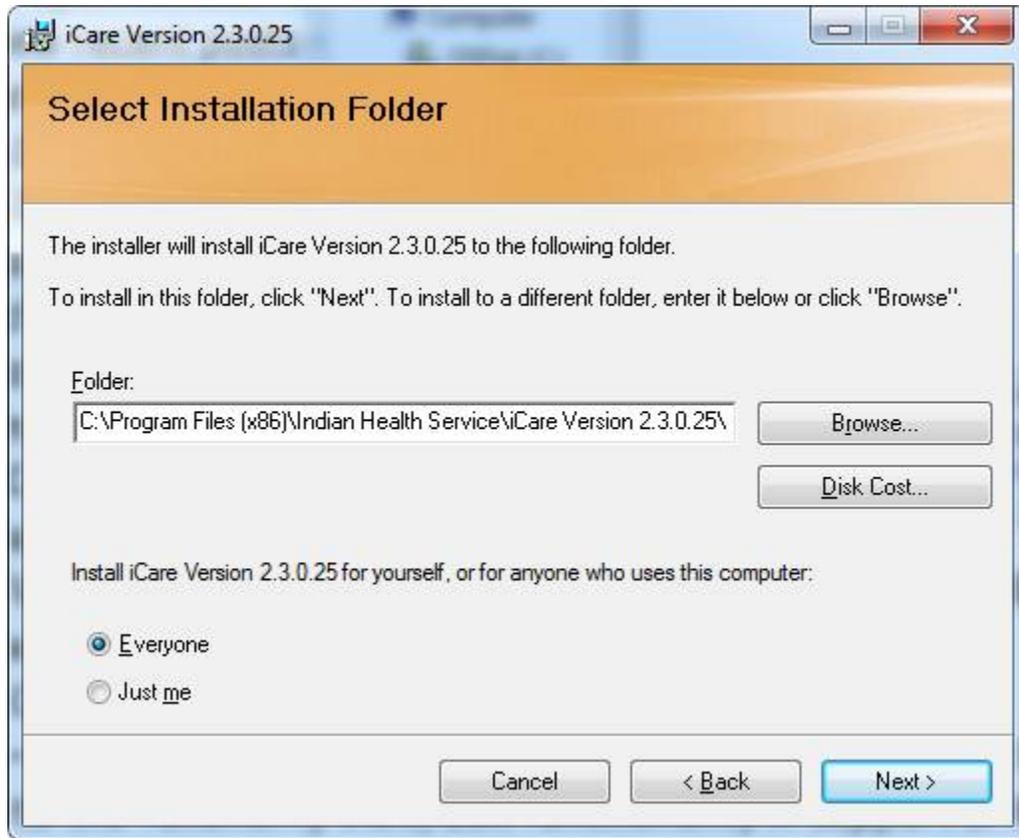


Figure 4-7: Select Installation Folder screen

4. Click **Next** to confirm installation.

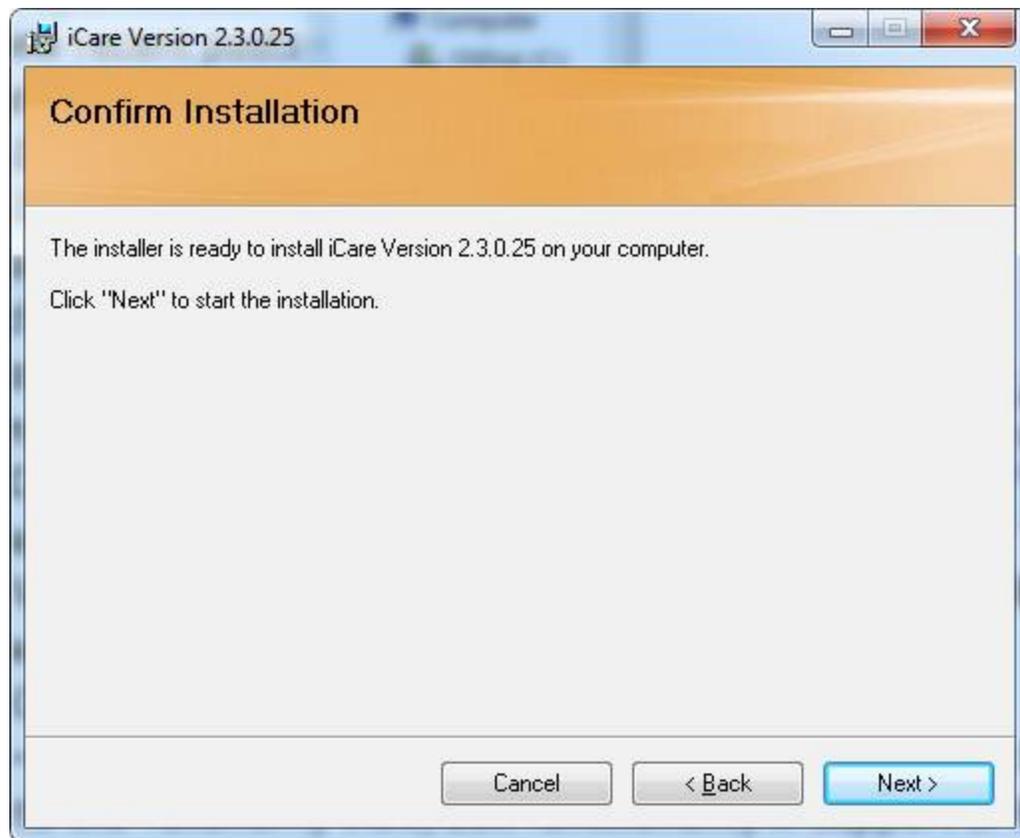


Figure 4-8: Confirm Installation screen

5. Click **Close** to complete the installation.

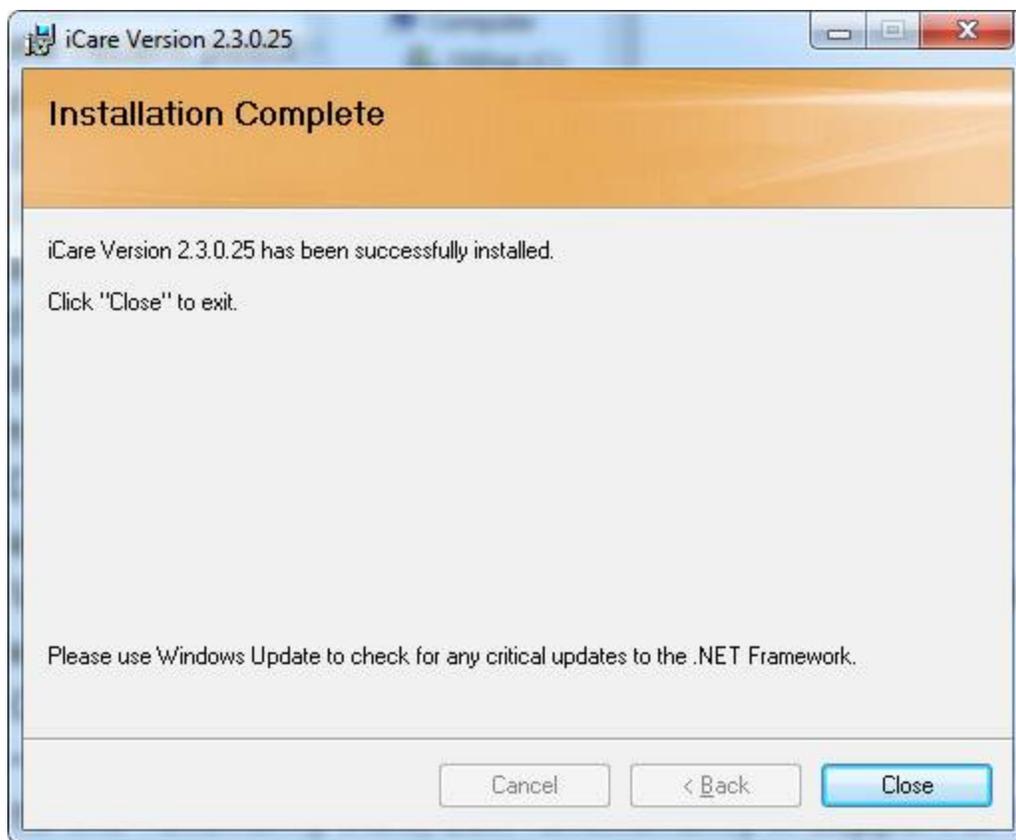


Figure 4-9: Installation Complete screen

## 5.0 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.

### 5.1 Basic Single-Workstation Installation

The basic single-workstation procedure is outlined in Section 4.5 of the iCare Population Management GUI (BQI) – Installation Guide and Release Notes manual. Step-by-step instructions are provided for executing the iCare GUI client install package to install directly on a user’s workstation.

### 5.2 Terminal Services/Citrix Server Installation

For sites that utilize thin client/terminal services such as Citrix or MS 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.

### 5.3 Windows SMS

Some IHS sites may utilize Microsoft’s SMS (System Management Server) 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.

## 5.4 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 below.

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](http://www.windowsnetworking.com/articles_tutorials/Group-Policy-Deploy-Applications.html)

## 5.5 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. This location 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.

### 5.5.1 /configpath:"{File path}"

Example:

```
bqi-iCare.exe /configpath:"\\appserver1\shared\iCareConfig\"
```

When the “configpath” argument is specified, the application will check in the defined file path location for the server connection configuration file named `bm_x_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 `bm_x_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.

### 5.5.2 /lockedit

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

When the “lockedit” argument is included, 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.

This option 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 5.5.4 for more details.

### 5.5.3 /rpms:

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

The “rpms” argument 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)
- Name space (optional)

- Windows Authentication (set to Win for Windows authentication)
- Receive Timeout (in milliseconds, recommended 60000)
- Send Timeout (in milliseconds, recommended 40000)

#### 5.5.4 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. This approach has the advantage that 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_config.xml` file with the server connections that are desired. The easiest way to do this is for the administrator to start the iCare application using the `/configpath` command line argument to specify the network location where the file is to be stored. When the application starts, the administrator can specify the connection(s) that are desired to be available to the users sharing this configuration file. After signing in to the iCare GUI application the file at the specified `/configpath` location will contain the connection entries that were entered.
2. 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. It is recommended that the `/lockedit` argument also be used so that user's sharing the central configuration file are not allowed to edit that file, but instead can only select from the available choices.

## 6.0 Post-Installation Configuration Instructions

### 6.1 Automatic Post-Installation Jobs

#### 6.1.1 Meaningful Use Provider Clinical Quality

As part of the post-installation process, two background jobs; MU Clinical Quality for 90 Days [BQI UPDATE MU CQM 90 DAYS] and MU Clinical Quality for 1 Year [BQI UPDATE MU CQM 1 YEAR] will be removed. MU Clinical Quality data will now run automatically on the first of the month for a 1 (one) month timeframe.

During the post-install, previous months were set up to calculate for the current month back to July 2011. There will be no MU data in iCare until at least the current month calculation has run.

```
Task list Mar 29, 2012 11:41 am Page 1
-----
120067: NIN^BQITASK6, MU CQ Monthly Compile. No device. TEST5.
      From Today at 11:39, By you. Scheduled for Today at 11:42
-----
```

The initial month is set up to run three minutes from installation. Because the MU CQ job is restricted from running during normal hours, depending on the time of installation, it may be requeued to start at 6:30 PM.

```
Task list Mar 29, 2012 11:43 am Page 1
-----
119150: RA PERFORMIN TASKLM - Run Previous Quarter's Summary Report. No device.
DEV1,LIVE. From 2/15/2012 at 15:00, By you. Scheduled for Today at 14:40
-----
120067: NIN^BQITASK6, MU CQ Monthly Compile. No device. DEV1,LIVE.
From Today at 11:42, By ACORD,ARLIS L. Scheduled for Today at 18:30
-----
120044: LRTASK ROLLOVER - ROLLOVER ACCESSION . No device. DEV1,LIVE.
      From Today at 0:01, By you. Scheduled for Tomorrow at 0:01
-----
120048: ORMTIME RUN - ORMTIME Run. No device. DEV1,LIVE. From Today at 1:00,
By you. Scheduled for Tomorrow at 0:01
-----
120046: LRTASK NIGHTY - NIGHTLY CLEANUP. No device. DEV1,LIVE.
      From Today at 1:00, By you. Scheduled for Tomorrow at 0:02
-----
120047: PSO AMIS RECOMPILE - Recompile AMIS Data. No device. DEV1,LIVE.
      From Today at 1:00, By you. Scheduled for Tomorrow at 0:02
Enter RETURN to continue or '^' to exit:
```

## 6.1.2 Improving Patient Care Collaborative (IPC) Monthly Data Calculation

Data for the IPC tab will run on the first of the month unless the designated IPC Package Manager modifies that value in the iCare IPC Site Parameters. Installation of the software AFTER the first of the month will delay the IPC monthly processing until the following month. For example, if the software is installed on March 13th, the IPC monthly processing will first take place on April 1st for the month of March.

The IPC Monthly Data Calculation takes place during the iCare Nightly Job [BQI NIGHTLY BACKGROUND] on the day defined in the IPC Site Parameters. The day defaulted during installation is the first of the month.

So if your nightly job is scheduled to run at 01:00 AM on the first of the month and you install on the first of the month at 08:00 AM, your job will not run.

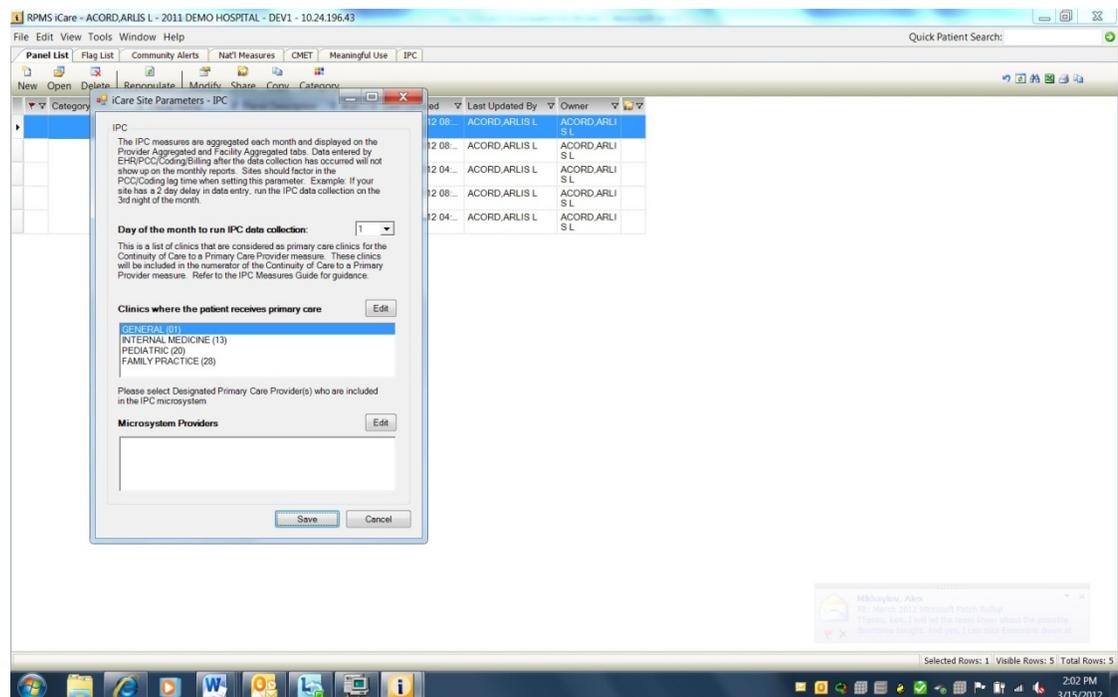


Figure 6-1: IPC Monthly Data Calculation

## 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](mailto:support@ihs.gov)