**Bar Code Medication Administration (BCMA)  
BCMA Backup System (BCBU)  
InterSystems IRISHealth   
Installation and Setup Guide**



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Revision History

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# Introduction

This document contains instructions for the installation of IrisHealth on Microsoft Windows workstations.

## General Background Information

These instructions are specific to installing IRIS on Windows workstations for the use of IRISHealth with BCMA Backup system (BCBU). These instructions cover two types of installations:

1. Conversion of an existing BCBU Cache workstation to IRISHealth
2. Installation of Intersystems IRISHealth on workstations which have never had Intersystems Cache or IRISHealth installed before.

### Intended Audience

This document is intended for VA personnel responsible for the installation of IRISHealth for the use of IRISHealth with BCMA Backup (BCBU) system.

This document presumes a working knowledge of Microsoft Windows Operating Systems.

### Software Disclaimer

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### Document Conventions

This document uses the following typographic conventions:

* Controls, options, and button names are shown in **Bold**.
* A vertical bar is used to separate successive menu choices. For example: “Click **File | Open**” means: “Click the **File** menu; then click the **Open** option.”
* Keyboard key names are shown in bold and in brackets.
* Sample output is shown in monospace. For example: BCBUIRISDATmmddyy.zip
* Important or required information is shown in a **Note**.

## Prerequisites

Installation requires administrator privileges through local admin account logon or via user’s eToken with admin rights to the machine.

## License/Key

BCMA BU systems require an IRIS license – also referred to as a “key” – to run properly. Please note the following about the license:

* Each site has one point of contact (POC) for IRIS Licenses
* Each site has a single key for all their BCMA BU workstations, i.e. one key per site
* Keys have a 30 year expiration date

For new licenses enter a Service Now Ticket to group: [REDACTED]

Once you receive the key, save it as “iris.key” to folder “C:\BCMABU” on the BCBU workstation.

## Overview

This document contains instructions for the installation of InterSystems IRISHealth or conversion of InterSystems Cache to IRISHealth on Microsoft Windows workstations.

# Retrieve and Unzip Files

## List of Files Required for Installation

These files are required for installation and can be downloaded from [REDACTED].

Table . Required Installation Files

|  |  |  |
| --- | --- | --- |
| **Filename** | **Type** | **Location** |
| BCBUIRISDATmmddyy.zip  Note: “mmddyy” is a placeholder for the date and will change as the file is periodically updated to include all current patch installs. | ZIP | [REDACTED] |
| IRISHealth-2020.1.0.xxx.xxx-win\_x64.exe  This is the Windows 64-bit executable.  Note: “xxx.xxx” is a placeholder for the version number and will change as the file is periodically updated with Intersystems updates. This directory should only contain the latest version. | EXE | [REDACTED] |

### Create directory C:\BCMABU

* If it does not already exist, create directory C:\BCBAMU. Save both files listed in the previous step to this directory.

### Unzip BCBUIRISDATmmddyy.zip to C:\BCMABU

After unzipping the contents for the .ZIP file, the resulting C:\BCMABU directory should contain the following files:

* BCBU Workstation IrisHealth Install-Conversion 2022.doc
* bcma.ico
* cube.ico
* export.ro
* iris.cpf
* iris.dat
* Read Me First.txt

# Converting From Cache to IRISHealth

NOTE: If you are installing onto a workstation which has never installed BCMA Backup before, then skip this chapter and proceed to chapter “New BCBU Workstation Installation Instructions”.

This chapter provides instructions for converting a workstation with an existing Intersystems Cache installation to Intersystems IRISHealth. If you are installing onto a system which has never had Intersystems Cache installed, skip this chapter and go to chapter New BCBU Workstation Installation Instructions.

Be sure to complete the steps in the chapter Retrieve and Unzip Files before proceeding with the instructions in this chapter.

## Software Conversion

1. Delete C:\BCMABU\iris.dat

* For conversions, this file must be deleted before starting.
* During this process the existing “cache.dat” will be renamed to “iris.dat” for you.
* If it is not deleted before starting, this will require user and patient inits to be resent from Vista. See chapter [Initialize New BCBU with User/Patient Data](#_Initialize_new_BCBU) for instructions on how to resend the inits.

1. Run the EXE file as Administrator

* Right-click the file C:\BCMABU\IRISHealth-2020.1.0.xxx.xxx-win\_x64.exe and select “Run as Administrator”.

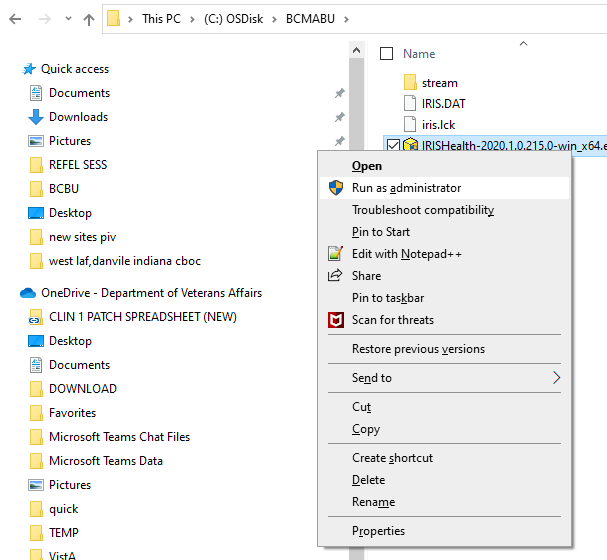


Figure . Run the EXE file as Administrator

At this point you will have to select the appropriate etoken account or enter administrator account and password at Windows User Account Control dialog pop up. If the Windows user account being used does not have required administrator privileges to perform this installation then you will need to seek assistance from a privileged workstation administrator.

1. Cache to IRIS Conversion Question

* At the Select Instance dialog box “Select Cache (conversion)” and then click “OK”.

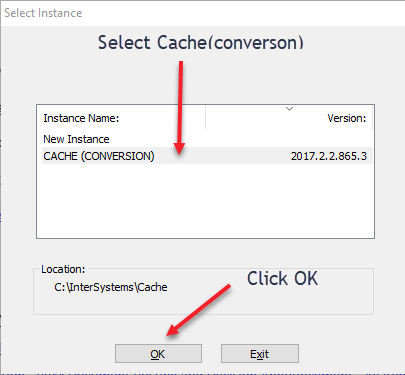


Figure . Cache to IRIS Conversion Question

## License Conversion

1. Click on the “License” button.

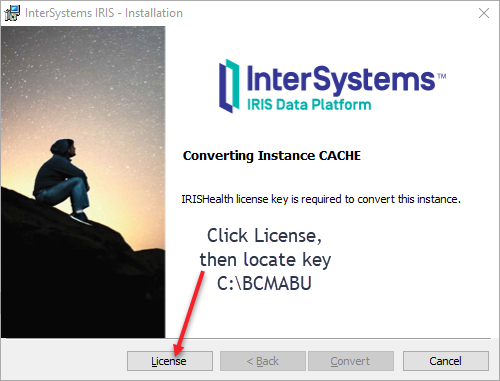


Figure . Convert Cache License to IRISHealth

1. Locate “iris.key” file previously saved to C:\BCMABU\iris.key

* Navigate to the directory “C:\BCMABU” and locate the file “iris.key”.
* After locating the file, click “Open”. This will copy the iris.key file to the c:\intersystems\cache\mgr directory.

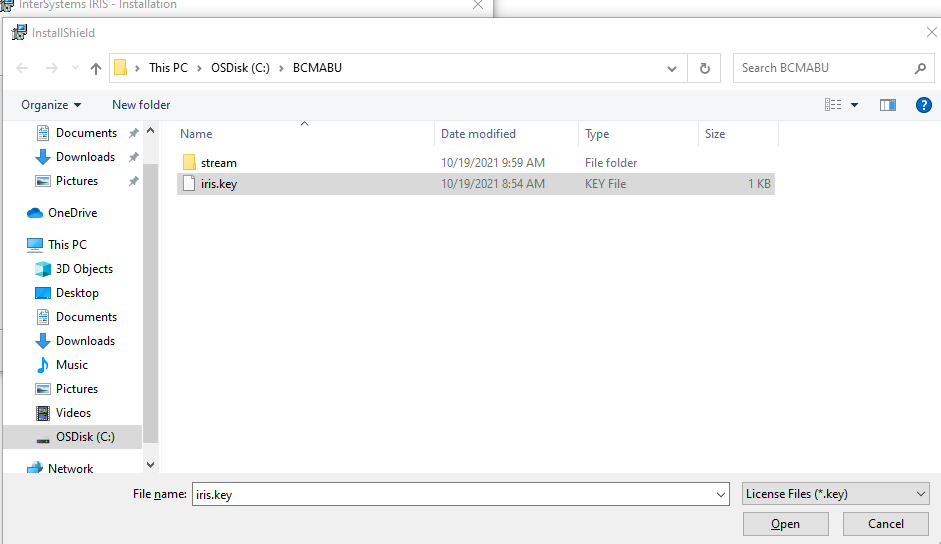


Figure . Locating “iris.key” file

1. After License Process Completes, select “Convert”

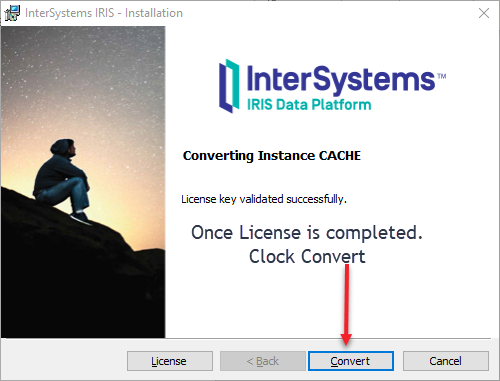


Figure Final Conversion Step

1. Click “Finish”

* Once the convert process is done, then the “Finish” button is available to click.

1. Go to “[Setting up BCMA Backup Shortcut](#_Setting_up_BCMA)” to complete conversion

* See [Setting up BCMA Backup Shortcut](#_Setting_up_BCMA) to complete the conversion to IRIS

# New BCBU Workstation Installation Instructions

NOTE: If you are converting a workstation from Cache to IRISHealth, please do not use this chapter. Instead, follow the instructions in chapter [Conversion Instructions From Cache to IRISHealth.](#_Converting_From_Cache)

This section provides instructions for installing Intersystems IRISHealth on workstations which have never had Intersystems Cache or IRIS installed before. If you are doing an conversion from Cache to IRISHealth, please do not use this chapter and follow the instructions in chapter [Conversion Instructions From Cache to IRISHealth](#_Converting_From_Cache) instead.

Be sure to complete the steps in the chapter [Retrieve and Unzip Files](#_Retrieve_and_Unzip) before proceeding with the instructions in this chapter.

## IRISHealth EXE Installation



### Run the EXE file as Administrator

1. Right-click the file C:\BCMABU\IRISHealth-2020.1.0.xxx.xxx-win\_x64.exe and select “Run as Administrator”.

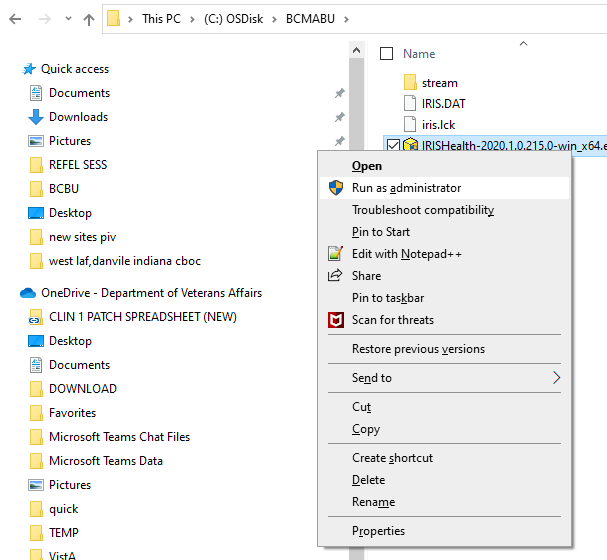


Figure . Run the EXE file as Administrator

* At this point you will have to select the appropriate etoken account or enter administrator account and password at Windows User Account Control dialog pop up. If the Windows user account being used does not have required administrator privileges to perform this installation then you will need to seek assistance from a privileged workstation administrator.

1. At “Instance Name” select “New Instance”

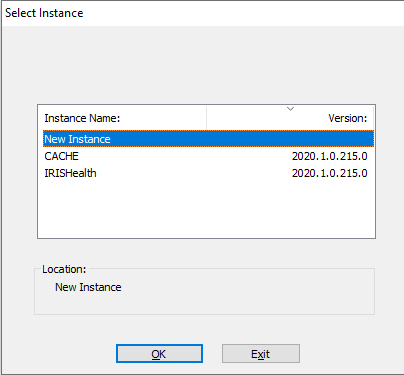
* At the “Select Instance” dialog box, click on “New Instance” then Click OK. 

Figure . At “Instance Name” select “New Instance”

1. Accept License Agreement and click “Next”

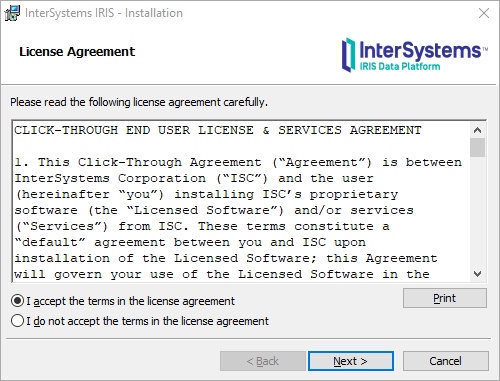


Figure . Accept License Agreement and click “Next”

1. At “IRIS Instance Name” enter “CACHE”

NOTE: Be sure to change the Instance Name from the default value to CACHE. Failure to do so will result in an improperly configured BCMA BU system which may not work correctly. If this happens, the recommendation is to uninstall IRISHealth and restart the installation from scratch.

1. At the “InterSystems IRIS Instance Name” box, type in “CACHE”, then click “Next”.

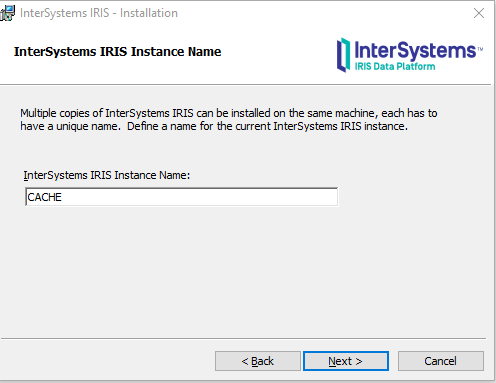


Figure . “IRIS Instance Name” Window

1. “Destination Folder” should Default to “C:\InterSystems\IRISHealth” and click “Next”
2. At “Setup Type” select “Development”, then click “Next”

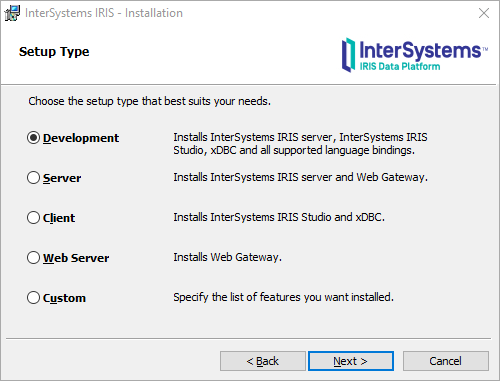


Figure . Setup Type Window Selection

1. At “Install Unicode Support” select “8-bit” then click “Next”.
2. At “Initial Security Settings” select “Normal” then click “Next”.
3. Accept Default Credentials for InterSystems IRIS Service
4. Confirm that the first option is selected: “Run InterSystems IRIS under default SYSTEM account”, then click “Next”.
5. “IRIS Users Configuration” Password

* IRIS now requires user/password for Management Portal access. For ease of OIT administration, use the same password with all BCBU workstations.
* Please store this password in a secure location where OIT staff who administer the workstation will have access to it. If the password is lost, then submit a Service Now ticket to REDACTED for instructions on resetting this password.
* Enter the chosen password in both fields in the “InterSystems IRIS Users configuration” dialog box, then click “Next”.

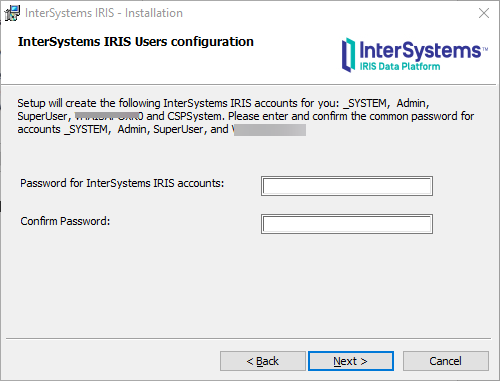
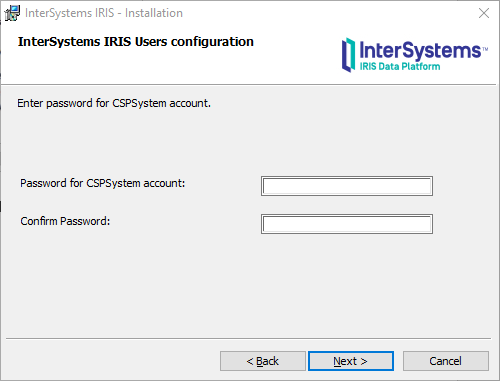
****

Figure . “IRIS Users Configuration” Password

1. “CPSsystem Account” Password

Use the same password as the “IRIS Users Configuration” password from the previous step.



**Figure 19. “CPSsystem Account” Password**

1. Ready to Install the Program: Click “Install”

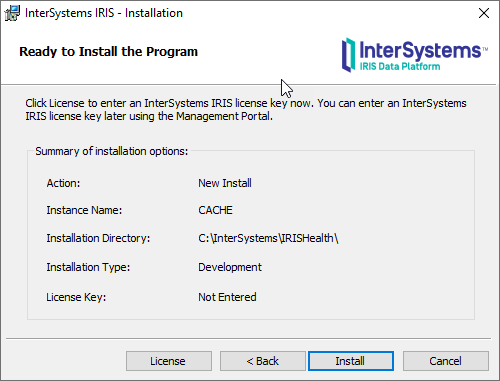


Figure . Ready to Install the Program: Click “Install”

1. Wait for Install to complete and click “Finish”

* Once installation is complete, click the “Finish” button.



## Stop IRIS application

You need to stop then restart IRIS application in order to configure IRIS for BCMA BCBU.

1. In the Windows Start menu, type “stop InterSystems IRIS [CACHE]”

Screenshot searching for STOP IRIS application in start menu

**Figure 22. Windows Start Menu Search**

1. On the right, select “Open”

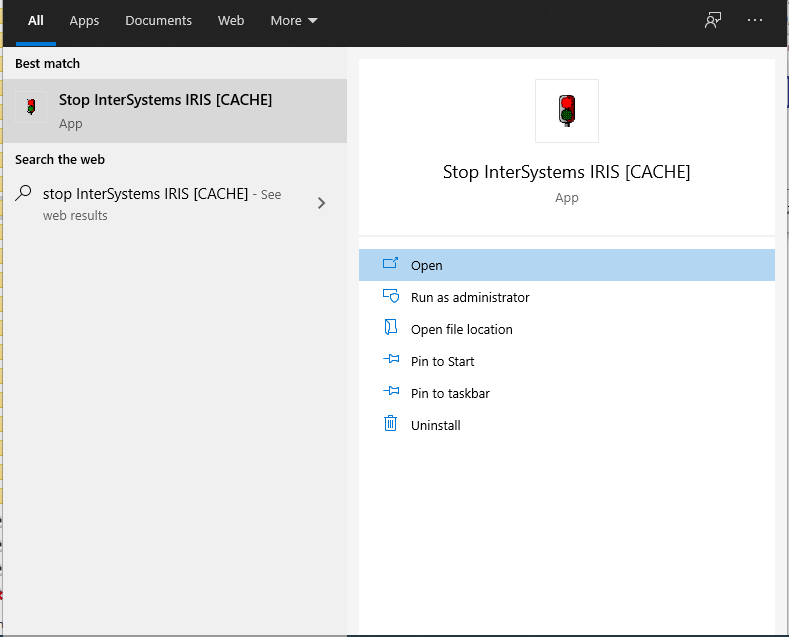


Figure . Open IRIS Stop Utility

1. Select Shut Down and Click OK



Figure . “Stopping…” Dialog

1. Wait for it to stop.
2. In the lower left hand corner of your monitor, the IRIS Tray Icon will be greyed out.

Screenshot Greyed out IRIS icon

## Copy files to “C:\InterSystems\IRISHealth”

The file iris.cpf already contains most of the setup (namespace, mapping etc). Copy these files to the IRISHealth directory.

Table . Copy ".cpf" and ".key" files

|  |  |
| --- | --- |
| **Copy This File** | **To This Directory** |
| C:\BCMABU\iris.cpf | C:\InterSystems\IRISHealth\ |
| C:\BCMABU\iris.key | C:\InterSystems\IRISHealth\mgr\ |

## Restart IRIS Service

1. In the Windows Start menu, type “start InterSystems IRIS [CACHE]”

Screenshot Searching for Start IRIS application in Start menu

1. On the right, select “Open”

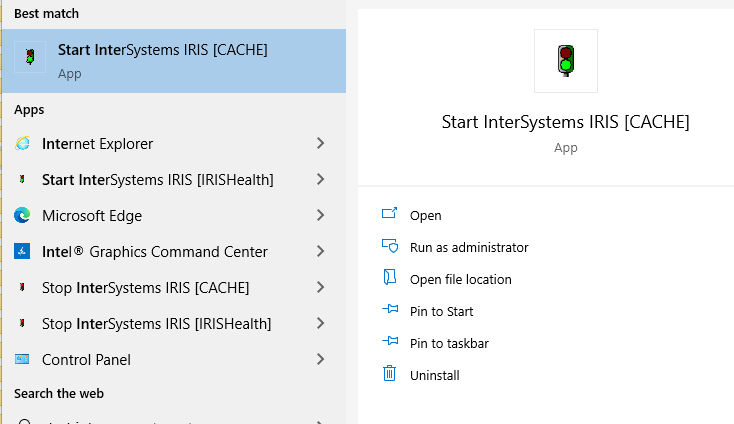


Figure . Open IRIS Start Utility

## Management Portal Configuration Steps

This section covers Management portal configuration tasks to manage the console, user account, and start up processes.

The IRIS service must be started before you can access the “Management Portal [CACHE]”.

1. In the Windows Start menu, open “Management Portal [CACHE]”

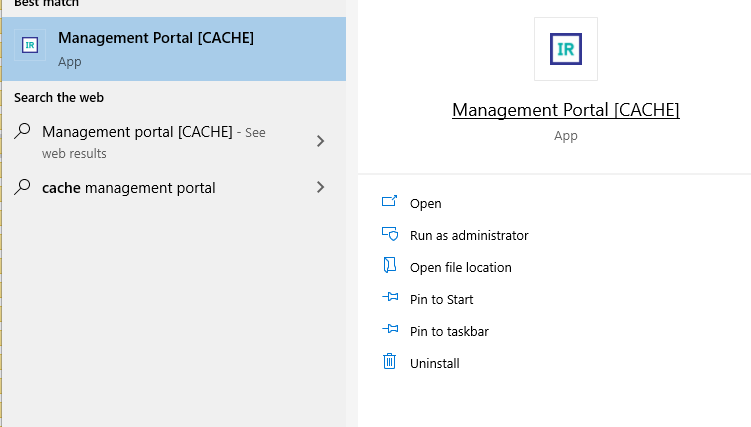


Figure . “Management Portal [CACHE]” In the Windows Start Menu

1. You will be prompted for Username and Password. The user name is “admin” and the password is what you specified in step 5.1.10 “IRIS Users Configuration”.

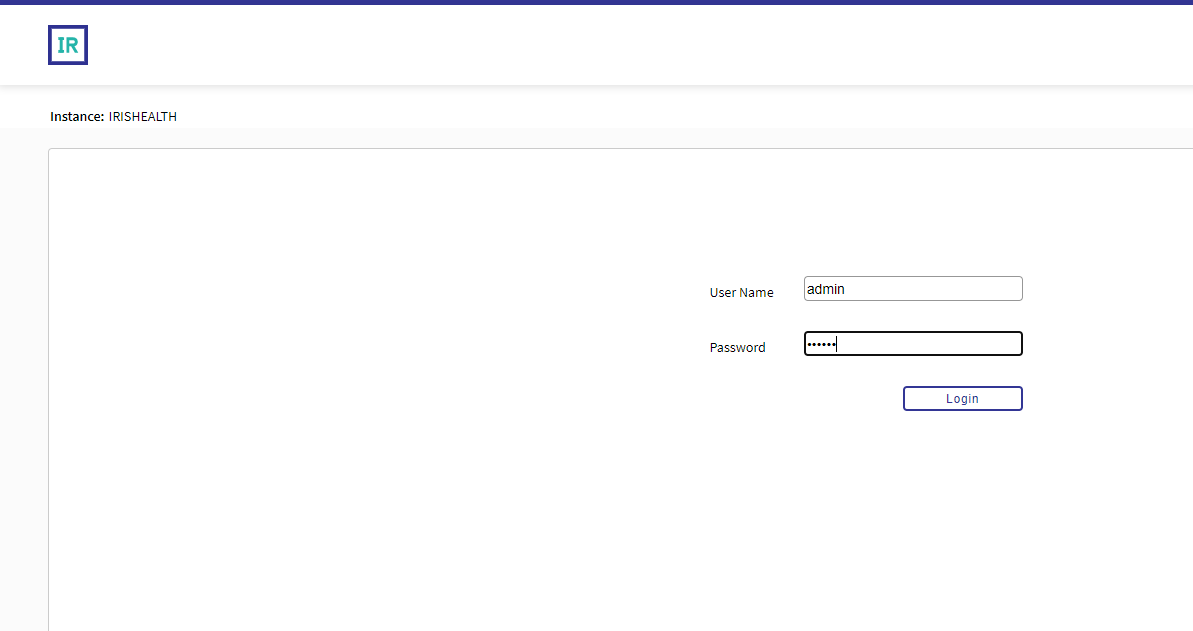


Figure . IRIS Username and Password Dialog

1. If you log in successfully, you will see the “Welcome” message screen.

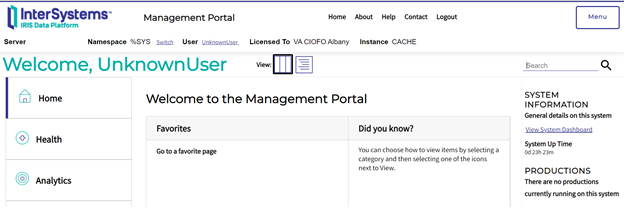


Figure . “Welcome” message screen.



### Configure IRIS Services

IRIS services control how the BCMA Backup terminal client will interact with the user.

1. Click “Menu” in upper right then select “Manage Services”

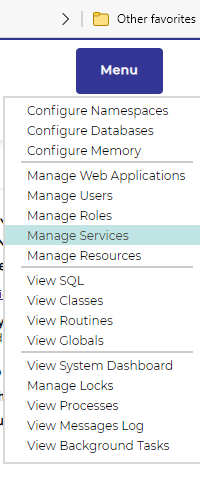


Figure . View of Menu Options

1. In “Services”: click “%Service Console”

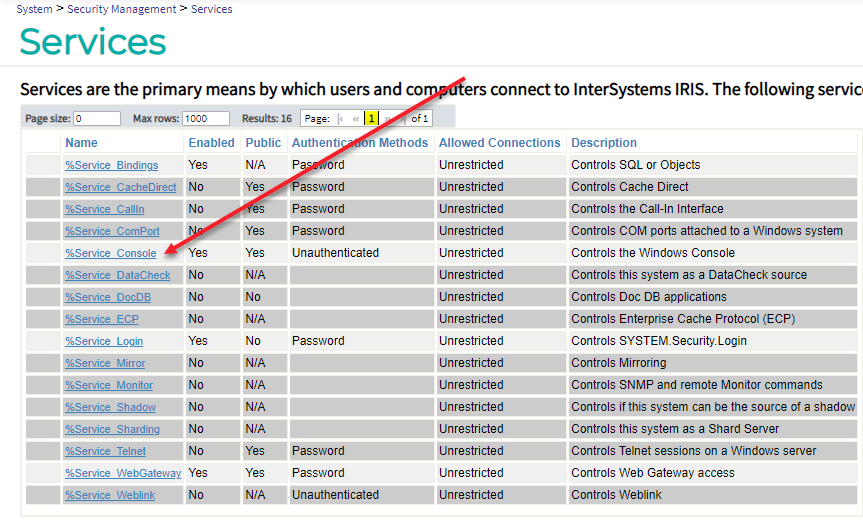


Figure . “%Service Console” Location within Services

1. In “Edit Service”: make sure only “Unauthenticated” is selected

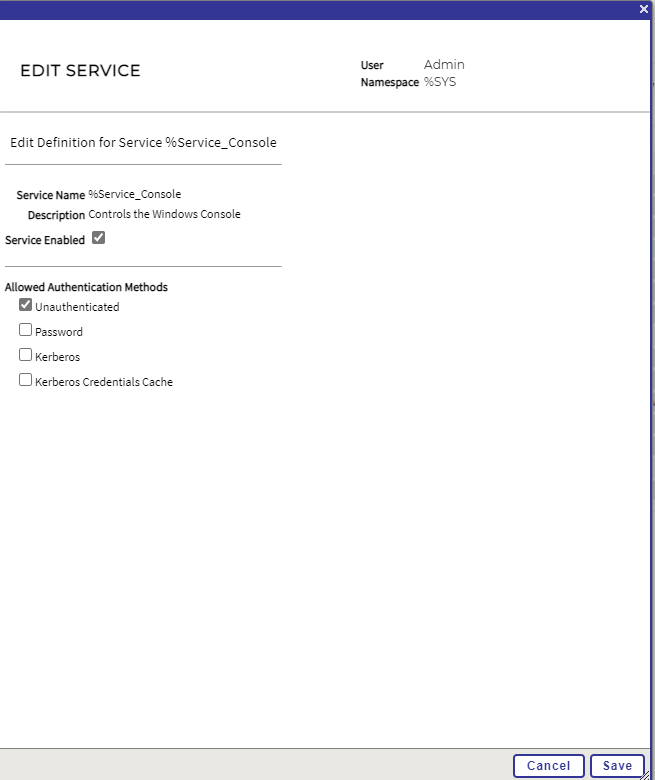


Figure . “Edit Service” Dialog

1. Click “Save”

### Configure IRIS “UnknownUser” User

This configures the IRIS terminal session to prompt for “Access/Verify” code.

* Click “Menu” in upper right then select “Manage Users”

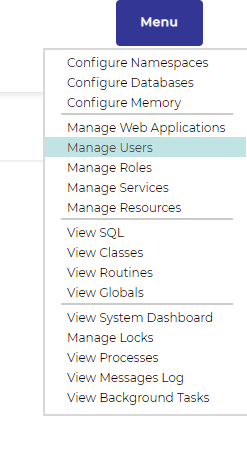


Figure . “Manage Users” within Menu

1. Click on “UnknownUser”

* This takes you to the “Edit User” screen for user “UnknownUser” which has the Full Name “Unauthenticated user”.

1. Click “Roles” tab

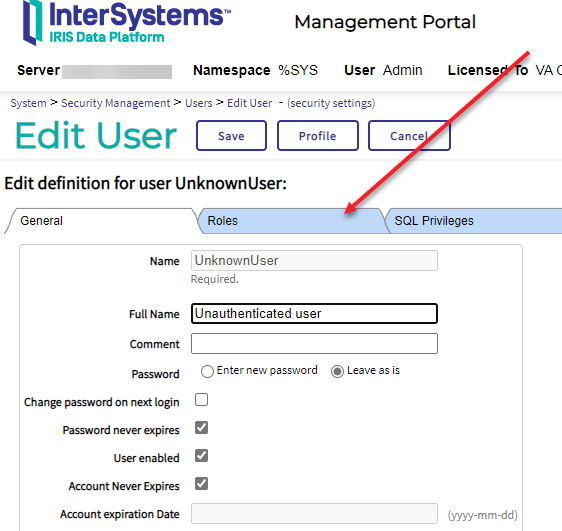


Figure . “Roles” tab in IRIS

1. Select “%All” and click right arrow

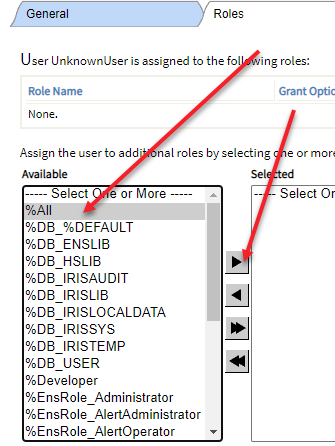


Figure . “%All” in Dropdown Menu

1. “%All” is now on the right and click “Assign”

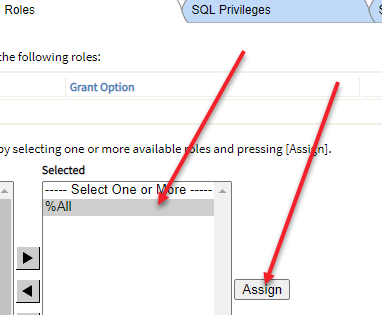


Figure . Assigning “%All”

1. Observe “%All” is now assigned under “Role Name”

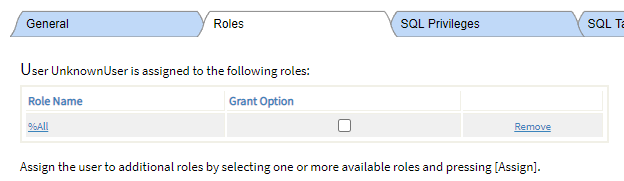


Figure . Observe “Role Name”

1. Click on “General” tab
2. For “Startup Namespace” select “VISTA”

* See next step for screen shot for this field.

1. For “Startup Tag^Routine” enter “^ZU”

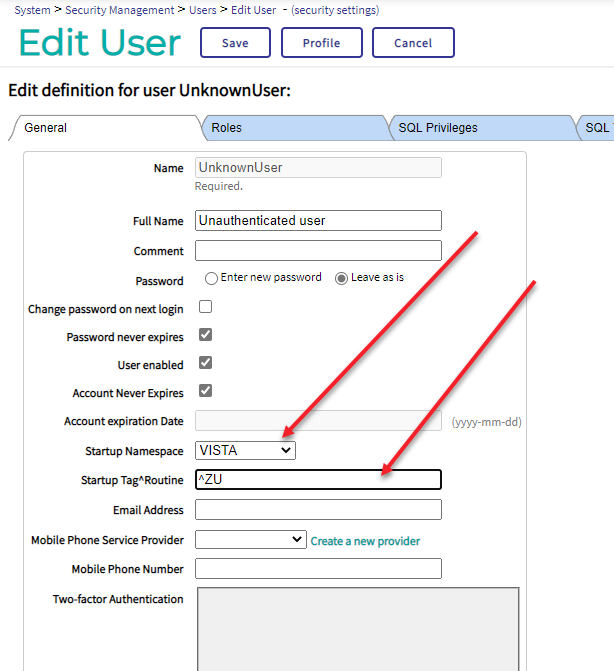


Figure . “Startup Tag^Routine” Entry

1. Click “Save”

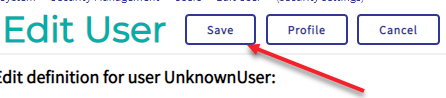


Figure . “Save” Button

### Import ZSTU into %SYS

The ZSTU routine performs start up tasks when BCBU launches.

NOTE: If the above step is not completed then BCBU will not auto start correctly.

1. Click “Home” to return to the “Welcome” screen

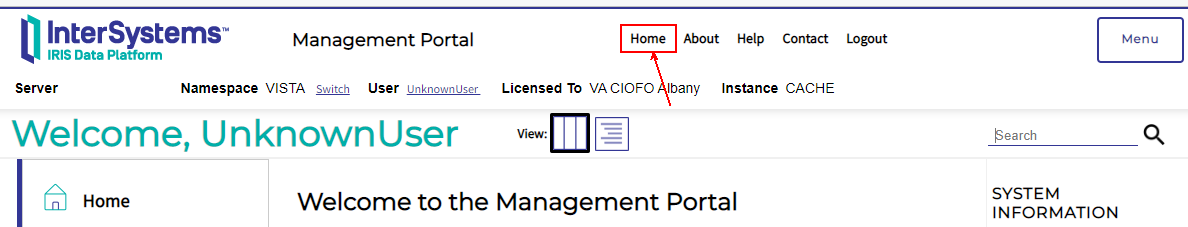


Figure . “Home” Button Location within IRIS

1. Select “Switch”

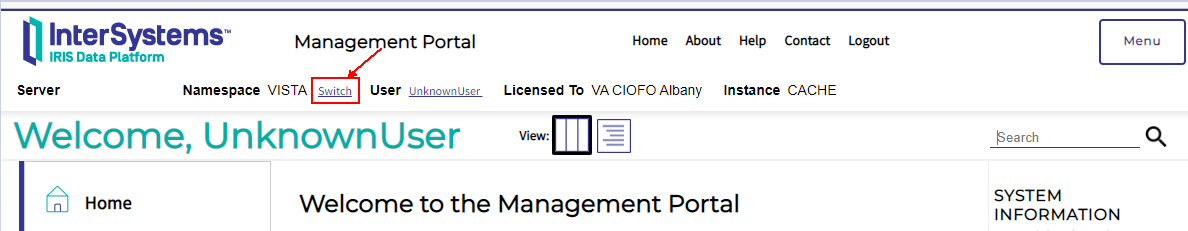


Figure . “Switch” Location within IRIS

1. “Namespace Chooser”: Select “%SYS” then click “Ok”

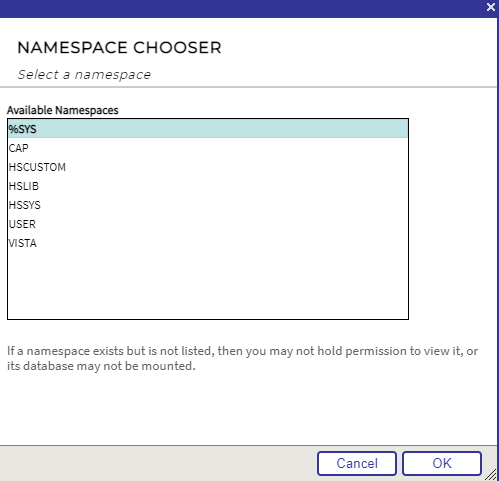


Figure . Namespace Chooser Dialog

1. Click “Menu” in upper right and select “View Routines”

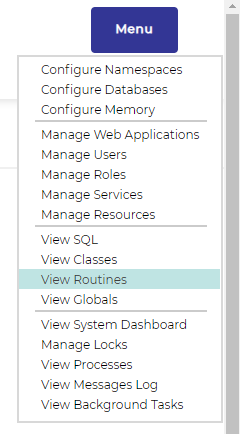


Figure . “View Routines” Location in Menu

1. Click “Import”

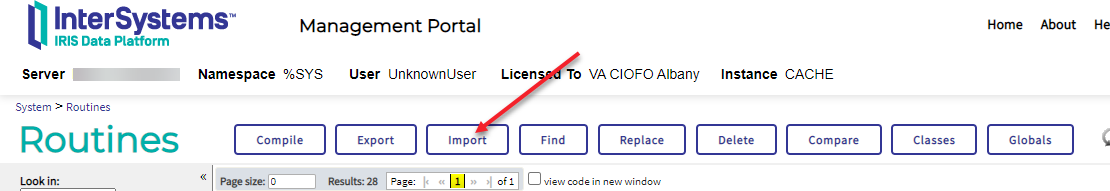


Figure . IRIS Tabs: Import Location

1. Browse for file “C:\BCMABU\export.ro” and click “OK”

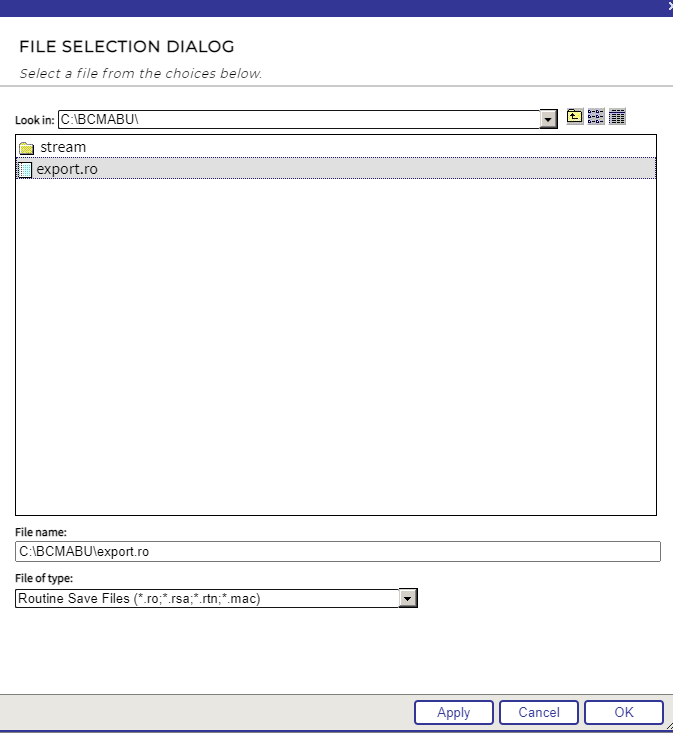


Figure . Locating Routines

1. “Import Routines”: Click “Next”

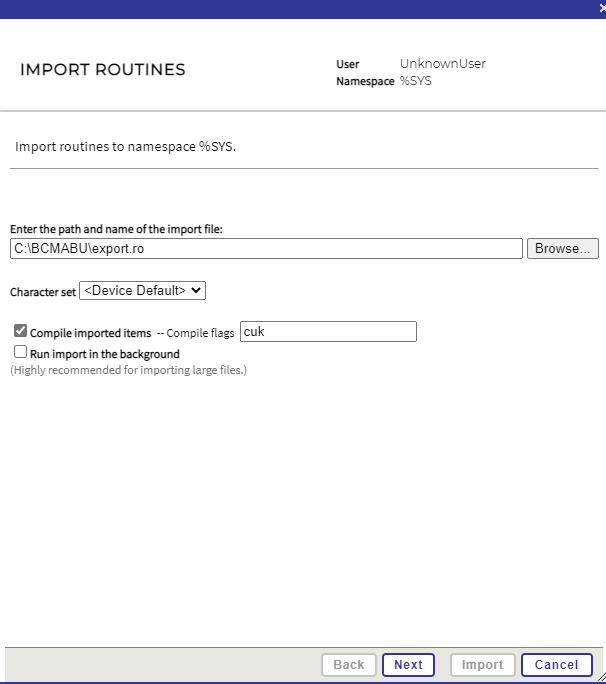


Figure . “Import Routines”: Click “Next”

1. Click “Import”

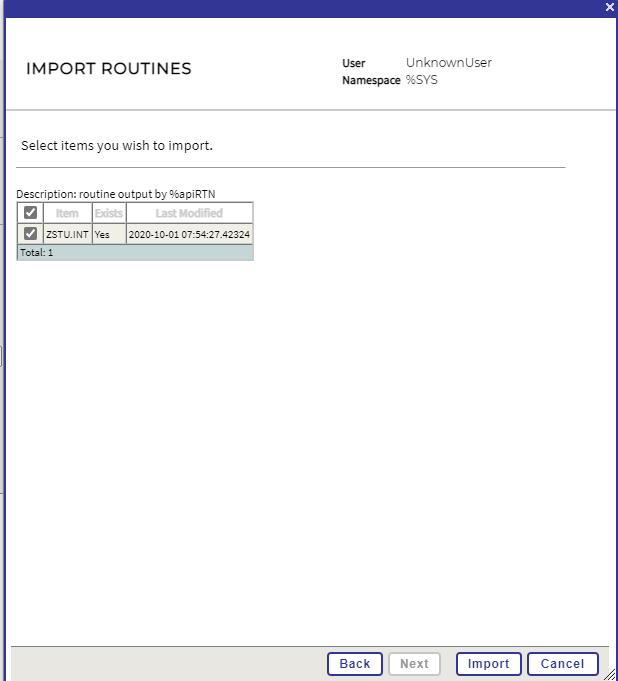


Figure . Importing Routines

1. Click “Done”

### Configure Auto-Start

1. Click “Menu” in upper right then “Configure Memory”
2. Confirm “Auto-start on System Boot” is checked and click “Save”
3. If “Auto-start on System Boot” is not checked, then check it, then click “Save”.

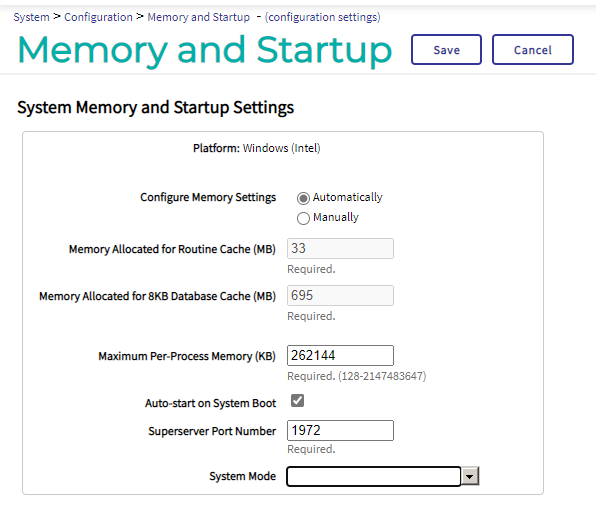


Figure . “Memory and Startup” Dialog

1. Exit Management Portal
2. Click the “Logout” button or close the browser window.

## Stop and Restart IRIS Service

1. In the Windows Start menu, type “stop InterSystems IRIS [CACHE]”

Screenshot searching STOP IRIS application 

1. Select “Open”

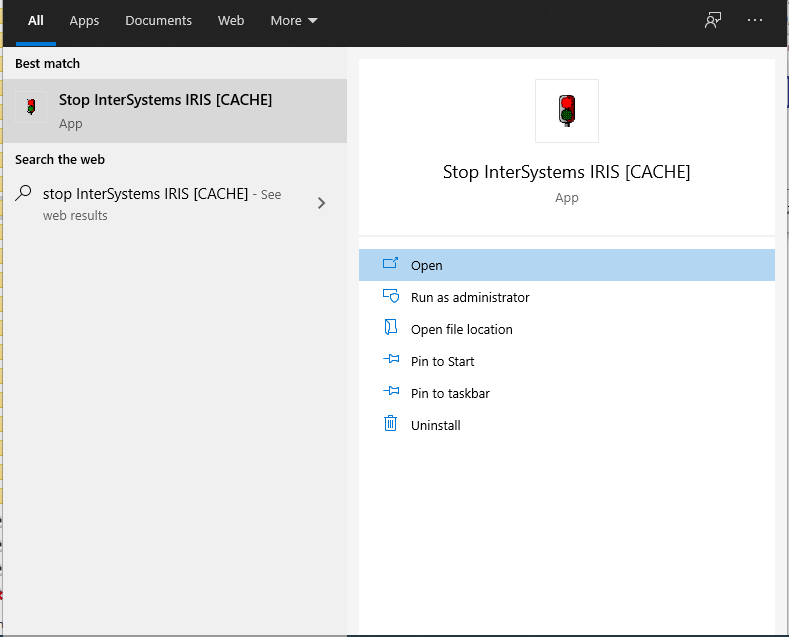


Figure . Open Stop IRIS Utility

1. Select “Restart” and Click “OK”

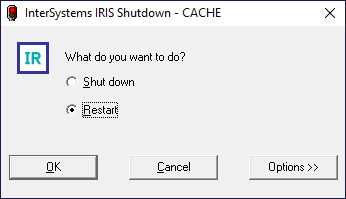


Figure . IRIS Shutdown/Restart Dialog



# Setting up BCMA Backup Shortcut

In this section you will create the desktop shortcut to the BCMA Backup software.

1. Delete existing BCMA Backup Icon

NOTE: This step should only be performed on workstations which did a conversion from Cache to IRISHealth.

Workstations which did a new installation of IRISHealth should skip this step.

Delete the existing “BCMA Backup” icon on the workstation desktop. This icon only works with Cache and will not work with the IRISHealth software and so should be deleted.

1. Create shortcut on desktop

To create the shortcut, right click anywhere on the desktop and select “New/Shortcut”.

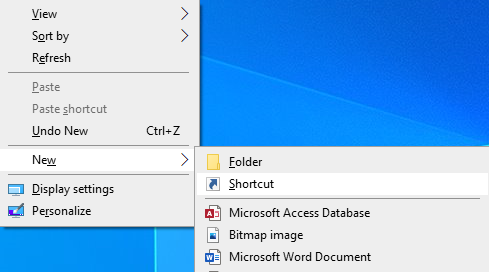


Figure . Creating New Shortcut

1. Enter path to shortcut location

* In the “Type the location of the item” dialog box, the correct location will depend upon whether the workstation was converted from Cache to IRISHealth, or if it was a brand new BCBU IRISHealth installation. Please select the correct location from the table below.

Table . BCMA Backup Shortcut Path/Location

|  |  |
| --- | --- |
| **Workstation Installation Type** | **Location/Path** |
| Converted Cache to IRISHealth | C:\InterSystems\cache\bin\Iristerm.exe /console=cn\_ap:cache[VISTA] |
| New BCBU IRISHealth installation | C:\InterSystems\IRISHealth\bin\Iristerm.exe /console=cn\_ap:cache[VISTA] |

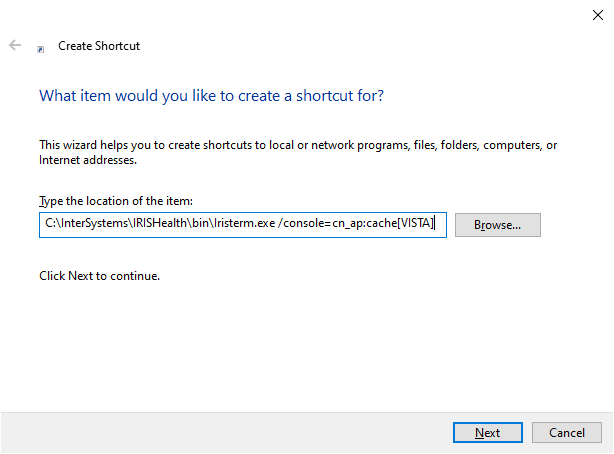


Figure . Entering path to shortcut location

1. Then click the “Next” button.
2. Enter shortcut name

* When prompted, enter a name that will be displayed with the shortcut. A suggested name is “BCMA BACKUP” but sites can use any name they choose.

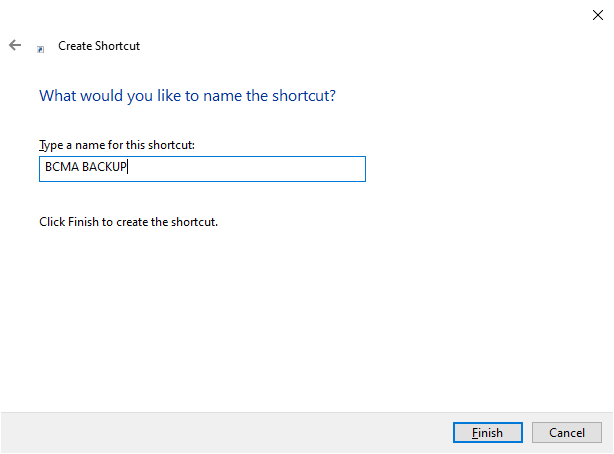


Figure . Entering shortcut name

1. Then click the “Finish” button.
2. Change BCBU icon

* Click the right mouse button on the new icon, then select “Properties”

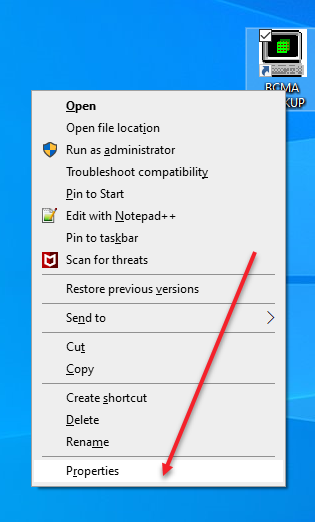


Figure . Right click Location of "Properties"

1. Click “Change Icon”

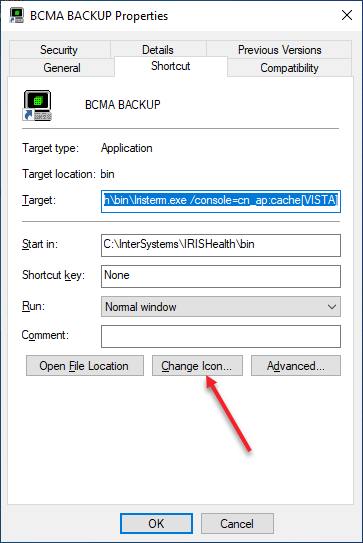


Figure . “Change Icon” Button

1. Select “C:\BCMABU\bcma.ico” or sites may choose their own icon. Included icons are “bcma.ico” and “cube.ico” (old Cache), then click OK

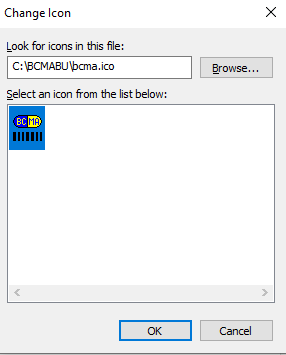


Figure . Selecting icon

1. Click Apply and then OK

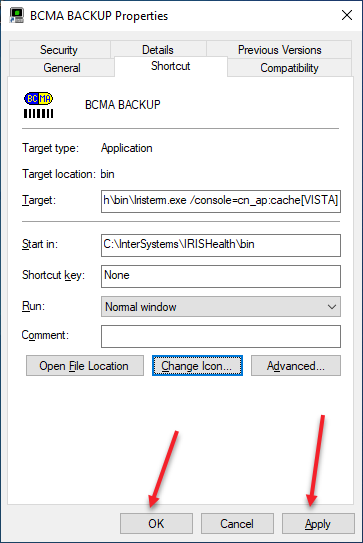


Figure . Accepting Changes

1. If you used the “bcma.ico” icon provided with the ZIP file, it will look like this on the desktop:



1. Copy shortcut BCBU icon to “All User” desktop

* Double-Click the BCBU shortcut icon to enter the Backup system on the PC Workstation. Use the appropriate access and verify code to access the system.

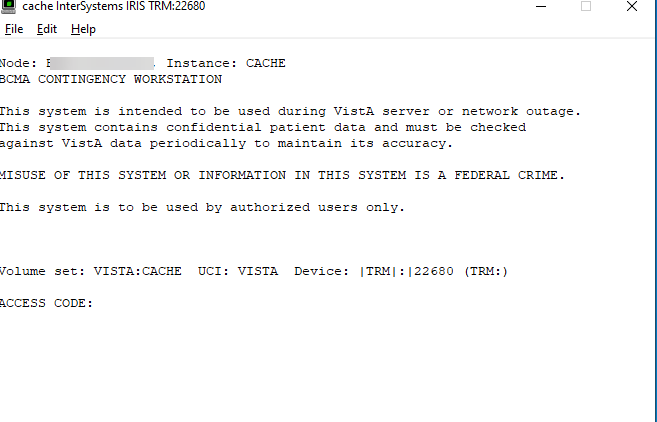


Figure . After Double-Clicking the BCBU shortcut icon

1. Workstation setup is complete

This completes the setup of InterSystems IRISHealth on the BCBU contingency workstation. Refer to the “BCMA V.3.0 Backup System (BCBU) Version 3 Installation Guide” to complete the VistA side of the package setup.

# BCBU Printer Set Up



## Connect the printer to the workstation

## Install the Windows printer drivers. Use Generic Drivers (Recommended)

Some workstations may work correctly with the model specific printer driver. If printing still does not work, then this is often fixed by changing the printer driver to “Generic / Text Only”.

## Rename Windows printer to BCBU PRINTER

* The Windows printer name should be renamed to “BCBU PRINTER” (case sensitive) in order to match the name of the printer defined within the BCBU application.

# Initialize new BCBU with user and patient data

On a new BCBU system installation, the BCBU database is not populated with patients or users. It must be initialized with this information from the site’s VistA system before patient data is available and users can access the new BCBU system. The tasks for initializing a new BCBU system are described in detail in the “BCMA V.3.0 Backup System (BCBU) Version 3 Installation Guide” section “Sample PC Workstation Database Initialization”. This document can be found in the VistA Virtual Documentation Library at REDACTED

As an overview, initializing a new system consists of performing the following tasks on the site’s VistA system. You may need to contact your VistA support personnel for assistance.

Table New BCBU Workstation Initialization Tasks

|  |  |  |
| --- | --- | --- |
| **Task** | **VistA Option** | **Purpose** |
| 1. Configure the HL7 logical links | Link Edit [HL EDIT LOGICAL LINKS] | Defines the IP address or DNS name of the BCBU workstation |
| 2. Associate the HL7 logical link to VistA BCBU application | Associate Backup Workstations with a Division [PSB BCBU LINK ASSOCIATIONS] | Associates the HL7 logical link as a subscriber to the VistA BCMA Backup software so the workstation will receive BCMA HL7 messages from VistA |
| 3. Run workstation initialization to populate patient data | Depending upon your site’s configuration, run ONE of the following options:  Default Workstation Initialize [PSB BCBU INIT WRKSTN DFT]  OR  Divisional Workstation Initialize [PSB BCBU INIT WRKSTN DIV | Sends current patient demographics and Inpatient Pharmacy orders to the BCBU workstations |
| 4. Run the VistA user initialization to populate users’ access/verify codes: | Initialize a Backup Workstation with BCMA User [PSB BCBU USER INIT] | Sends all BCMA authorized users’ access/verify code information to the BCBU workstations |

Initialization options 3 and 4 are under menu option BCMA Backup System (Vista) [PSB BCBU VISTA MAIN].  Vista SECURITY KEY assignment of PSB BUMGR is required.

Select OPTION NAME: PSB BCBU VISTA MAIN       BCMA Backup System (Vista)

   LNK    Associate Backup Workstations with a Division  
   DFT    Default Workstation Initialize  
   DIV    Divisional Workstation Initialize  
   USR    Initialize a Backup Workstation with BCMA Users  
   PAT    Single Patient Init

Appendix

1. Apache Security Updates

InterSystems IRISHealth runs the Apache server software which must be regularly patched according to OIT security policies. Local IT services must manually install the patches on BCMA Backup workstations. Workstations which are not patched will be flagged during CRISP reviews. These patches will be distributed by OIT Infrastructure Operations and OIT may send out Action Items to direct sites when updates are available.

Required updates should be installed on any workstations running InterSystems IRISHealth.

* 1. Apache Patch Information

The Apache Security Updates may be found in the location below. This location will be regularly maintained with the latest security updates.

|  |  |
| --- | --- |
| **Security Patch Location:** | REDACTED |
| **Installation Script Name:** | REDACTED |
| **Installation Permissions:** | REDACTED |
| **Service Now Group:** | REDACTED |

* 1. Example Workstation Installation

This is a example of the output when running the Apache patch installation on a workstation.

REDACTED