Bar Code Medication Administration (BCMA)
BCMA Backup System (BCBU)
InterSystems Caché Installation Setup

Version 3.0
April 2015

Department of Veterans Affairs (VA)
Office of Information and Technology (OIT)
Product Development (PD)
## Revision History

<table>
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<tr>
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<th>Revision</th>
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<th>Author</th>
</tr>
</thead>
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<tr>
<td>07/11</td>
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<td>Footers updated; removed HSITES and added Product Development, removed VistA. Renamed instances of CACHE to Caché throughout the document. Updated version to reflect BCMA v3.0 version.</td>
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</tr>
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1 InterSystems Caché Installation Setup


The Caché software was downloaded from the VA FTP sites and is located under the corresponding version of the CACHE folder. To start the setup locate the downloaded executable and run it.

Accept the license agreement and click Next.

Figure 1
Click NEXT at the Define Cache Instance Name.
Figure 2
Click **Next** at Destination Folder

Figure 3
Choose **Development** and click **Next**.
Figure 4

Continue following the instructions and accept the defaults for your system.
Figure 5

Figure 6
Click **Install**
Figure 7

Uncheck **Display the Getting Started page** and click **Finish**.

Figure 8

Upon the completion of a successful installation, a "Blue Cube" will appear on the PC toolbar in the lower right hand side of the screen.
Caché must be configured with databases, namespaces, and routines by using the Management Portal located on the Caché cube menu options.

Right clicking on the cube will display the menu options for Caché, and then choose Management Portal.
1.1.1 Adding a Database

The first step is to add a Database. From the Main Screen, choose the **Menu** button and then **Configure Databases**.
Figure 11

Select the Local Database option and then Create New Database button.
Figure 12

Type VISTA as the name of the database and enter C:\BCMABU into the Directory Selected field. Click NEXT to continue.
Verify values entered and click **FINISH**.

**Figure 13**

Verify values entered and click **FINISH**.
Figure 14

The newly created database should now appear in the list (bottom of the list) with C:\BCMABU\ as its directory.
1.1.2 Adding a Namespace

We will create the namespace VISTA and attach it to the VISTA database. Click the MENU button and choose Configure Namespaces.
Figure 16

Click Create New Namespace button.
Type **VISTA** as the namespace and select **VISTA – C\BCMABU\** as the existing database. Click **Save**.
Figure 18

VISTA namespace should be seen in the listing of Caché Namespaces.
Figure 19

1.1.3  Global and Routine Mapping

Global and Routine Mappings are created under the Configuration Namespaces option by selecting Global Mappings and Routine Mappings for the VISTA namespace.
1.1.4  **Global Mapping**

Click Global Mappings for the **VISTA** namespace. Then click **New Global Mapping** to create the global mapping definition as shown in the following slide.
Figure 21
1.1.5 Routine Mapping

Click the **Menu** button (Figure 22) and then **Configure Namespaces**.

The Global Database Location is **VISTA** and the Global name is **%Z**. Click **Apply** (Figure 21) and **Save Changes**.

Select Routine Mapping.
Figure 23

Select **New Routine Mapping**. Type the first routine name, %DT*, (Figure 24) in the space provided and select **VISTA** as the routine database location. Click **Apply**. Repeat this procedure for routine names %RCR, %XU* and %Z*. When complete, your routine mapping should appear as shown in Figure 25. Click **Save Changes** and close this window.
Shut down CACHÉ

Click the Blue Cube (PC toolbar in the lower right hand side of the screen) and choose Stop Cache.
You will see the following screen as CACHE shuts down.
1.1.6 Cache Licenses install

The license information is a text file sent to you by InterSystems (cache.key).

Copy and paste into the C:\InterSystems\Cache\mgr folder.

CACHE.DAT

Copy the CACHÉ.DAT file you downloaded from the VA FTP site and copy it to the C:\BCMA\BCU folder.

You may receive a message stating the file is already present and do you want to replace it with the file you are importing. If so, answer YES.
1.1.7 Removing Read/Archive Properties

Using the "Windows Explorer", remove the Read and Archive Properties from the CACHÉ.DAT file. Right click “CACHÉ.DAT” and select "Properties" under the General Tab and Click Advance to remove Archive. Click Apply and then OK.

![Image of Windows Explorer with CACHÉ.DAT Properties]

Figure 28

1.2 Telnet Instructions

Start Caché. Note: The Cache Cube icon is Gray in color at this point, not Blue.
What we are going to do next is to move the **ZSTU** routine from the **VISTA** namespace to the **%SYS** namespace using the Management Portal.

Select Menu **button** then **View Routines**.
Figure 30
Select VISTA on left side of the screen.
Enter ZSTU in the Routines box and click Export.
Figure 31

Make sure the check box is selected for the routine (ZSTU.int).

Click Export
Figure 32
When finished, a message stating it was completed should appear.
Figure 33

Click the Menu button and then View Routines. See steps 1 - 6 to accomplish the following: Select the %SYS namespace (left side of screen). Select Import from across the top. Select the %SYS namespace (left side of screen). Browse to the path where you exported the routine. Select the routine and click OK.
Figure 34

Step 1.
Select %SYS on left side of the screen, click the Browse Button
Figure 35

**Step 2.**

Select C:\
Figure 36

Step 3.

Click BCMABU
Figure 37

*Step 4.*

Click `export.ro` and then the **OK** button.
Figure 38

Step 5.

Click the OPEN button.
Figure 39

Step 6.

Make sure the box is checked by ZSTU.INT. Click **Import**. The successful completion message should appear as shown in the following screen.
Figure 40

The successful completion message should appear as shown in the following screen.
1.3 Setting up Telnet and Terminal Users

We will be using the Management Portal to set up the Unknown User so the Telnet and Terminal Users will connect to the VISTA namespace using the routine ZU.

Click **HOME**

From the **Menu button** select **Manage Users**. The User Accounts will be displayed.
Click **Edit** for the Unknown User. Select **VISTA** as the Startup Namespace and enter `^ZU` as the Startup Tag\^Routine. Click **Save** then **Close this window**.

(Note: For programmer access, `%PMODE` in Default Tag\^Routine.)
Figure 43

After the edits are done the screen should look like this.
Figure 44

**IMPORTANT NOTE**: Stop and restart Caché. This will be the BCMA Backup Application. The start-up routine ZSTU will automatically start up TaskManager.

Verify certain parameters are set for proper operation.

From the Management Portal

Choose Menu, and then Manage Services. Click `%Service Telnet` (Figure 46) and set `%Service Telnet Enabled = Yes` and `Public = Yes`.

If not, click item and change the settings.
Services are the primary means by which users and computers connect to Caché. The following services are currently available:

![Services](image)

**Figure 45**
Return to **Home**, select **System Administration** then **Configuration** then **Device Settings**, then **Telnet Settings** then **GO** under **View or edit telnet definitions**. Set Telnet **Port** to **19210**. Default setting is 23. (Figures 47-48)
Figure 47

Click **Home**, then **Menu** then **Configure Memory**.
Figure 49
Make sure the “Start Cache on System Boot” is checked. If not, check it and click **Save**. Close this window.
1.4 Setting up the BCMA Shortcut

To create the shortcut from scratch, right click anywhere on the desktop and select New/Shortcut.
Figure 51

Enter `C:\InterSystems\Cache\bin\css.exe CTERMINAL CACHE` in the Type the location of the item box. Click Next.
Figure 52

Enter BCBU in the *Type a name for this shortcut* and click Finish (Figure 53).

Copy the Shortcut BCBU Icon to the All User Desktop.
Figure 53

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 54

Figure 55
This completes the setup of InterSystems Caché on the BCBU contingency workstation. Refer to the BCBU VistA Install Guide to complete the package setup.

How to Setup the Printer in BCBU PC.

Hook up the printer to the PC.

Install the Window printer drivers.

Click BCBU icon on PC and log in as user that has programmer privileges.

Select Systems Manager Menu Option: *Device Management*

Select Device Management Option: *Device Edit*

Select Device Edit Option: *TRM, TRM, or VTRM Device Edit*

Select Terminal/Printer Device: BCBU

### 1.4.1 Edit a TRM or VTRM device

<table>
<thead>
<tr>
<th>NAME:</th>
<th>BCBU PRINTER</th>
<th>LOCATION: BCBU WORKSTATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>$i:</td>
<td>[PRN] Name of the window’s printer</td>
<td></td>
</tr>
</tbody>
</table>

Example: Window's printer is Lexmark T650 PS3, then enter [PRN] Lexmark T650 PS3

Alt $i:

<table>
<thead>
<tr>
<th>TYPE:</th>
<th>TERMINAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>SUBTYPE:</td>
<td>P-HP-P16</td>
</tr>
</tbody>
</table>

| SIGN-ON/SYSTEM DEVICE: | NO |
| VOLUME SET(CPU): | |

| ASK DEVICE: | NO |
| ASK PARAMETERS: | NO |
| QUEUING: | FORCED |

MARGIN WIDTH: |

PAGE LENGTH: |

SUPPRESS FORM FEED: |

Save and Exit.