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

Version 3.0
April 2016

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

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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.

![License Agreement](image)

**Figure 1**

Click NEXT at the Define Cache Instance Name.
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**Figure 2**

Click **Next** at Destination Folder.

**Figure 3**

Choose **Development** and click **Next**.

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Figure 4

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

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.
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 15
Figure 16

Click Create New Namespace button.
Figure 17

Type **VISTA** as the namespace and select **VISTA – C\BCMABU\** as the existing database. Click **Save**.
Use the form below to create a new namespace:

![Namespace Creation Form]

Figure 18
VISTA namespace should be seen in the listing of Caché Namespaces.
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 to create the global mapping definition as shown in the following slide.
The global mappings for namespace VISTA are displayed below:

Figure 21

The Global Database Location is **VISTA** and the Global name is **%Z**. Click **Apply** (Figure 22) and **Save Changes**.
1.1.5 Routine Mapping

Click the Menu button (Figure 23) and then Configure Namespaces. Select Routine Mapping.

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.
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Figure 24

Figure 25

Shut down CACHÉ

Click the Blue Cube (PC toolbar in the lower right hand side of the screen) and choose Stop Cache.
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Figure 26
You will see the following screen as CACHE shuts down.

Figure 27

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:\BCMABU 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.

![Figure 28](image)

### 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 for the Look in Namespace on the 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, click **Done** when complete.
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. Browse to the path where you exported the routine. Select the routine and click **OK**.
Figure 34

Step 1.

Click the **Browse** button.
Figure 35

Step 2.

Use the folder icon on the right to get to the C:
Step 3.

Click BCMABU.
Step 4.

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

Step 5.

Click the Next 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.
Click Done.

**Figure 40**

### 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.
The following is a list of user definitions:

<table>
<thead>
<tr>
<th>Name</th>
<th>Full Name</th>
<th>Enabled</th>
<th>Namespace</th>
<th>Routine</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Admin</td>
<td>System Administrator</td>
<td>Yes</td>
<td>Cache password user</td>
<td>Delete</td>
<td>Profile</td>
</tr>
<tr>
<td>CSPSystem</td>
<td>CSP Gateway user</td>
<td>Yes</td>
<td>Cache password user</td>
<td>Delete</td>
<td>Profile</td>
</tr>
<tr>
<td>SuperUser</td>
<td>System Super user</td>
<td>Yes</td>
<td>Cache password user</td>
<td>Delete</td>
<td>Profile</td>
</tr>
<tr>
<td>UnknownUser</td>
<td>UnknownUser</td>
<td>Yes</td>
<td>USER</td>
<td>-</td>
<td>Profile</td>
</tr>
<tr>
<td>Public</td>
<td>(Internal use - not for login)</td>
<td>No</td>
<td>Cache password user</td>
<td>-</td>
<td>Profile</td>
</tr>
</tbody>
</table>

**Figure 41**

Click on the UnknownUser to edit it. 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 42**

After the edits are done the screen should look like this.
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 4) 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:

<table>
<thead>
<tr>
<th>Name</th>
<th>Enabled</th>
<th>Public</th>
<th>Authentication Methods</th>
<th>Allowed Connections</th>
<th>Description</th>
<th>Two-Factor Enabled</th>
</tr>
</thead>
<tbody>
<tr>
<td>%Service_Bindings</td>
<td>Yes</td>
<td>N/A</td>
<td>Password, Unauthenticated</td>
<td>Unrestricted</td>
<td>Controls SQL or Objects</td>
<td>No</td>
</tr>
<tr>
<td>%Service_CSP</td>
<td>Yes</td>
<td>Yes</td>
<td>Password, Unauthenticated</td>
<td>Unrestricted</td>
<td>Controls CSP Gateway access</td>
<td>No</td>
</tr>
<tr>
<td>%Service_CacheDirect</td>
<td>Yes</td>
<td>Yes</td>
<td>Unauthenticated</td>
<td>Unrestricted</td>
<td>Controls Cache Direct</td>
<td>No</td>
</tr>
<tr>
<td>%Service_Cache</td>
<td>Yes</td>
<td>Yes</td>
<td>Unauthenticated</td>
<td>Unrestricted</td>
<td>Controls the Call-in Interface</td>
<td>No</td>
</tr>
<tr>
<td>%Service_Console</td>
<td>No</td>
<td>Yes</td>
<td>Unauthenticated</td>
<td>Unrestricted</td>
<td>Controls CTERM (TRM pcd) and the Windows Console</td>
<td>No</td>
</tr>
<tr>
<td>%Service_Daemon</td>
<td>No</td>
<td>N/A</td>
<td>Unauthenticated</td>
<td>Unrestricted</td>
<td>Controls this system as a DataCheck source</td>
<td>No</td>
</tr>
<tr>
<td>%Service_ECP</td>
<td>No</td>
<td>N/A</td>
<td>Unrestricted</td>
<td>Unrestricted</td>
<td>Controls Enterprise Cache Protocol (ECP)</td>
<td>No</td>
</tr>
<tr>
<td>%Service_Login</td>
<td>Yes</td>
<td>No</td>
<td>Password</td>
<td>Unrestricted</td>
<td>Controls SYSTEM Security Login</td>
<td>No</td>
</tr>
<tr>
<td>%Service_Monitor</td>
<td>No</td>
<td>N/A</td>
<td>Unauthenticated</td>
<td>Unrestricted</td>
<td>Controls UNWPP and remote Monitor commands</td>
<td>No</td>
</tr>
<tr>
<td>%Service_Shadow</td>
<td>No</td>
<td>N/A</td>
<td>Unrestricted</td>
<td>Unrestricted</td>
<td>Controls if this system can be the source of a shadow</td>
<td>No</td>
</tr>
<tr>
<td>%Service_Telnet</td>
<td>Yes</td>
<td>Yes</td>
<td>Unauthenticated</td>
<td>Unrestricted</td>
<td>Controls Telnet sessions on a Windows server</td>
<td>No</td>
</tr>
<tr>
<td>%Service_Weblogic</td>
<td>No</td>
<td>N/A</td>
<td>Unauthenticated</td>
<td>Unrestricted</td>
<td>Controls Weblogic</td>
<td>No</td>
</tr>
</tbody>
</table>

Figure 44

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 46-47)
Click **Home**, then **Menu** then **Configure Memory**.
**Figure 48**

Make sure the “Auto-start 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 50

Enter `C:\InterSystems\Cache\bin\css.exe CTERMINAL CACHE` in the *Type the location of the item box*. Click **Next**.
Figure 51

Enter BCBU in the *Type a name for this shortcut* and click Finish (Figure 52).

Copy the Shortcut BCBU Icon to the All User Desktop.
Figure 52

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.
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Figure 53

Figure 54
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

**NAME:** BCBU PRINTER  **LOCATION:** BCBU WORKSTATION

$1: |PRN| Name of the window’s printer

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

Alt $1:

**TYPE:** TERMINAL

**SUBTYPE:** P-HP-P16

**SIGN-ON/SYSTEM DEVICE:** NO

**VOLUME SET(CPU):**

**ASK DEVICE:** NO  **MARGIN WIDTH:**

**ASK PARAMETERS:** NO  **PAGE LENGTH:**

**QUEUING:** FORCED  **SUPPRESS FORM FEED:**

Save and Exit.