



RESOURCE AND PATIENT MANAGEMENT SYSTEM

# **Chronic Disease Management**

## **(BCDM)**

**Installation Guide & Release Notes**

Version 1.0  
August 2010

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>
1.1	General Information .....	1
1.2	System Requirements .....	1
<b>2.0</b>	<b>Installation Notes</b> .....	<b>2</b>
2.1	Contents of Distribution .....	2
2.2	Required Resources .....	2
2.3	Before You Begin.....	2
<b>3.0</b>	<b>Installation Instructions</b> .....	<b>3</b>
3.1	Loading the Distribution .....	3
3.2	GIS INXPORT Import .....	9
3.3	Set IP Address and Port for the Interface .....	10
3.4	Queue BCDM Job to run Nightly.....	13
<b>4.0</b>	<b>Package Management</b> .....	<b>15</b>
<b>5.0</b>	<b>Package Operation</b> .....	<b>16</b>
<b>6.0</b>	<b>Installation Configuration</b> .....	<b>17</b>
	<b>Contact Information</b> .....	<b>18</b>

## Preface

This guide provides information regarding the loading and installation of the Indian Health Service (IHS) Chronic Disease Management software (BCDM).

## 1.0 Release Notes

Prefix: **BCDM**

Version: **1.0**

**Warning:** Read entire notes file prior to attempting any installation.

### 1.1 General Information

- Make a copy of this distribution for offline storage.
- Print all notes/readme files.
- It is recommended that the terminal output during installation be captured using an auxport printer attached to the terminal where the installation is being performed or that it be captured by use of a host file. This will ensure a printed audit trail will exist if any problems should arise.
- This is the initial Version release of the BCDM software: there are no patches nor do other versions exist.

### 1.2 System Requirements

The following are the RPMS requirements needed for the BCDM software:

- Caché
- FileMan 22
- Kernel 8.0 thru Patch 1013
- MailMan 7.1
- AICD 3.51 thru Patch 7
- AUPN 99.1 thru Patch 20
- AUT 98.1 thru Patch 23
- BJPC 2.0 thru Patch 4
- GIS 3.01 thru Patch 14

## 2.0 Installation Notes

**Prefix:** BCDM

**Current Version:** 1.0

### 2.1 Contents of Distribution

File	Description
bcdm0100.k	Kids Build
bcdm010i.pdf	Installation Guide and Release Notes
bcdm010t.pdf	Technical Manual
bcdm010u.pdf	User Manual
bcdm0100.g	BCDM GIS Inxport Global

### 2.2 Required Resources

N/A

### 2.3 Before You Begin

N/A

## 3.0 Installation Instructions

This is a first-time install of the software, so RPMS users may remain on the system.

### 3.1 Loading the Distribution

To load the distribution (bcdm0100.k) perform the following steps:

1. At the “Select OPTION NAME” prompt, type **XPD MAIN** and press Enter.
2. At the “Select Kernel Installation & Distribution System Option” prompt, type **Installation** and press Enter.
3. At the “Select Installation Option” prompt, type **1** to load the distribution and press Enter.
4. At the “Enter a Host File” prompt, enter the path to the KIDS build on your system and press Enter.
5. At the “Want to Continue with Load?” prompt, press Enter to accept the default (Yes).
6. At the “Want to RUN the Environment Check Routine?” prompt, press Enter to accept the default (Yes).

```

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
Enter a Host File: /USR7/usr7/predist/BETA/bcdm/bcdm0100.k

KIDS Distribution saved on Jun 29, 2010@14:48:10
Comment: IHS CHRONIC DISEASE MANAGEMENT

This Distribution contains Transport Globals for the following Package(s):
  BCDM 1.0
Distribution OK!

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

Build BCDM 1.0 has an Enviromental Check Routine
Want to RUN the Environment Check Routine? YES//
  BCDM 1.0
Will first run the Environment Check Routine, BCDMPRE

Beginning of Pre Check.
  Pre Check complete. OK.

Hello, GRACE SPEAR

Need at least VA FILEMAN 22.0
  VA FILEMAN 22.0 found. OK.

Need at least KERNEL 8.0
  KERNEL 8.0 found. OK.

  Need KERNEL 8.0 Patch 1013.
    KERNEL 8.0 Patch 1013 found. OK.

Need at least MAILMAN 7.1
  MAILMAN 8.0 found. OK.

Need at least GENERIC INTERFACE SYSTEM 3.01
  GENERIC INTERFACE SYSTEM 3.01 found. OK.

  Need GENERIC INTERFACE SYSTEM 3.01 Patch 14.
    GENERIC INTERFACE SYSTEM 3.01 Patch 14 found. OK.

Need at least IHS DICTIONARIES (PATIENT) 99.1
  IHS DICTIONARIES (PATIENT) 99.1 found. OK.

```

```

Need IHS DICTIONARIES (PATIENT) 99.1 Patch 20.
      IHS DICTIONARIES (PATIENT) 99.1 Patch 20 found. OK.

Need at least IHS ICD/CPT LOOKUP & GROUPER 3.51
      IHS ICD/CPT LOOKUP & GROUPER 3.51 found. OK.

      Need IHS ICD/CPT LOOKUP & GROUPER 3.51 Patch 7.
      IHS ICD/CPT LOOKUP & GROUPER 3.51 Patch 7 found. OK.

Need at least IHS DICTIONARIES (POINTERS) 98.1
      IHS DICTIONARIES (POINTERS) 98.1 found. OK.

      Need IHS DICTIONARIES (POINTERS) 98.1 Patch 16.
      IHS DICTIONARIES (POINTERS) 98.1 Patch 16 found. OK.

Need at least IHS PCC SUITE 2.0
      IHS PCC SUITE 2.0 found. OK.

      Need IHS PCC SUITE 2.0 Patch 4.
      IHS PCC SUITE 2.0 Patch 4 found. OK.

ENVIRONMENT OK.

```

7. Verify there are no errors reported by the Environment Check routine. If there is an error contact the Help Desk.

```

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: 2 Verify Checksums in Transport Global
Select INSTALL NAME: BCDM 1.0      Loaded from Distribution      Loaded from
Distribution 8/9/10@16:22:59
      => IHS CHRONIC DISEASE MANAGEMENT ;Created on Jun 29, 2010@14:48:10

This Distribution was loaded on Aug 09, 2010@16:22:59 with header of
      IHS CHRONIC DISEASE MANAGEMENT ;Created on Jun 29, 2010@14:48:10
It consisted of the following Install(s):
      BCDM 1.0
DEVICE: HOME//      VT
PACKAGE: BCDM 1.0      Aug 09, 2010 4:23 pm      PAGE 1
-----

4 Routine checked, 0 failed.

```

8. At the “Select Installation Option” prompt, type **2** to verify checksums and press Enter.
9. At the “Select INSTALL NAME” prompt, type **BCDM 1.0** and press Enter.

Verify that all none of the routines failed. If any of the routines fail, call the Help Desk.

```
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:

Consider using option 3 to print the transport. If printing the transport globals, choose the correct device to print to.

```

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: 6  Install Package(s)
Select INSTALL NAME:  BCDM 1.0      Loaded from Distribution      Loaded from
Di
stribution  8/9/10@16:22:59
      => IHS CHRONIC DISEASE MANAGEMENT ;Created on Jun 29, 2010@14:48:10

This Distribution was loaded on Aug 09, 2010@16:22:59 with header of
IHS CHRONIC DISEASE MANAGEMENT ;Created on Jun 29, 2010@14:48:10
It consisted of the following Install(s):
      BCDM 1.0
Checking Install for Package BCDM 1.0
Will first run the Environment Check Routine, BCDMPRE

Beginning of Pre Check.
      Pre Check complete. OK.

Hello, GRACE SPEAR

Need at least VA FILEMAN 22.0
      VA FILEMAN 22.0 found. OK.

Need at least KERNEL 8.0
      KERNEL 8.0 found. OK.

      Need KERNEL 8.0 Patch 1013.
      KERNEL 8.0 Patch 1013 found. OK.

Need at least MAILMAN 7.1
      MAILMAN 8.0 found. OK.

Need at least GENERIC INTERFACE SYSTEM 3.01
      GENERIC INTERFACE SYSTEM 3.01 found. OK.

      Need GENERIC INTERFACE SYSTEM 3.01 Patch 14.
      GENERIC INTERFACE SYSTEM 3.01 Patch 14 found. OK.

Need at least IHS DICTIONARIES (PATIENT) 99.1
      IHS DICTIONARIES (PATIENT) 99.1 found. OK.

      Need IHS DICTIONARIES (PATIENT) 99.1 Patch 20.
      IHS DICTIONARIES (PATIENT) 99.1 Patch 20 found. OK.

Need at least IHS ICD/CPT LOOKUP & GROUPER 3.51
      IHS ICD/CPT LOOKUP & GROUPER 3.51 found. OK.

      Need IHS ICD/CPT LOOKUP & GROUPER 3.51 Patch 7.
      IHS ICD/CPT LOOKUP & GROUPER 3.51 Patch 7 found. OK.

Need at least IHS DICTIONARIES (POINTERS) 98.1
      IHS DICTIONARIES (POINTERS) 98.1 found. OK.

      Need IHS DICTIONARIES (POINTERS) 98.1 Patch 16.
      IHS DICTIONARIES (POINTERS) 98.1 Patch 16 found. OK.
Need at least IHS PCC SUITE 2.0

```

```

IHS PCC SUITE 2.0 found. OK.

Need IHS PCC SUITE 2.0 Patch 4.
IHS PCC SUITE 2.0 Patch 4 found. OK.

ENVIRONMENT OK.

Install Questions for BCDM 1.0

Incoming Files:

90520      BCDM PATIENT

Enter the Device you want to print the Install messages.
Enter a '^' to abort the install.

DEVICE: HOME//  VT

Install Started for BCDM 1.0 :                Aug 09, 2010@16:24:31
Build Distribution Date: Jun 29, 2010

Installing Routines
Aug 09, 2010@16:24:31

Installing Data Dictionaries

Installing PACKAGE COMPONENTS:

Installing OPTION
Aug 09, 2010@16:24:31

Running Post-Install Routine: POST^BCDMPRE
*****

Site: USER'S HEALTH CENTER NAME

IHS CHRONIC DISEASE MANAGEMENT Version 1.0 INSTALL complete.
*****

Updating Routine file
Updating KIDS files
BCDM 1.0 Installed.                Aug 09, 2010@16:24:31

Install Message sent

Install Completed

```

- At the “Select Installation Option” prompt, type **6** to install the distribution, and press Enter.

Upon completion, an ALERT is sent to the user running the install.

Review the system error trap following the installation to verify that no errors occurred during installation. If an error occurred during the installation process, it may be an indication of a failed install and should be investigated.

## 3.2 GIS INXPORT Import

The Installer must be in programmer mode (^XUP).

1. Kill the GIS ^INXPORT global by using the following command:

```
K ^INXPORT
```

Figure 3-1: Command used to kill the global

2. Load the transport global using either the Caché cube or by typing the following command:

```
D ^%GI

Global input

Device: C:\INETPUB\FTPROOT\PUB\bcdm0100.g
Parameters: "RS"=>
Globals were saved on 10 Mar 2008  2:05 PM  Cache
with description:

Input option: A
^INXPORT
```

Figure 3-2: Loading the transport

3. At the “Device” prompt, type the path and filename (bcdm0100.g) for the global file and press Enter.
4. At the “Parameters” prompt, press Enter to accept the default (“RS”).
5. At the “Input option” prompt, type **A** and press Enter.
6. Copy the information from the transport global into GIS by using the MPORT^BHLU by using the following command:

```

BCDM>D MPORT^BHLU

Importing GIS HL Supplement CDMP, developing site IHS

Generation for message: HL IHS CDMP PATIENT
OUT.....
.....

The following scripts were generated:
  Generated: HL IHS CDMP PATIENT OUT-O

Compiling Script: Generated: HL IHS CDMP PATIENT OUT-O
..
MUMPS section....
DATA
section.....
.....
.....
END section.

Compile completed with 0 warnings and 0 errors.
Linking... Filing generated routines...

Routine IS00026  ...Filed
Routine IS00026A ...Filed
Routine IS00026B ..Filed
Routine IS00026C ...Filed
Routine IS00026D ...Filed
Finished Importing GIS Supplement
BCDM>

```

Figure 3-3: Loading the transport global

**Note:** Routine names may be different than the ISnnnnn shown above.

### 3.3 Set IP Address and Port for the Interface

The IP address and Port number of the client must be entered using the GIS menu.

1. At the “Select OPTION NAME” type **INH MAIN MENU** and press Enter to go to the GIS Interface Menu.

```

Select OPTION NAME: INH MAIN MENU      GIS Interface Menu

TCM Transaction Control Menu ...
FTM File and Table Menu ...
EM Error Menu ...
BPM Background Process Control Menu ...
SM Script Menu ...
SGM Script Generator Menu ...
IHS IHS User Menu ...

Select GIS Interface Menu Option: FTM File and Table Menu

TTE Transaction Type Enter/Edit
DE Destination Entry/Edit
SPE Site Parameter Entry/Edit
BPE Background Process Entry/Edit
IOE Interface OS Edit
RMD Replicate message to destinations
IAD Interface Application Display

Select File and Table Menu Option: BPE Background Process Entry/Edit
Select BACKGROUND PROCESS:

```

Figure 3-4: GIS Interface Menu

2. At the “Select GIS Interface Menu Option” prompt, type **FTM** and press Enter.
3. At the “Select File and Table Menu Option” prompt, type **BPE** and press Enter.
4. At the “Name” prompt, type **HL IHS CDMP OUT** and press Enter.

```

*** Background Process Entry/Edit ***   Screen 1 of 3

Name: HL IHS CDMP OUT
Active: ACTIVE      Priority:
Device:
Routine: INHVTAPT
Destination: HL IHS CDMP OUT
Destination Determination Code:

Client/Server: CLIENT      Connection Type: TRANSIENT
Server Ports:

Client Addresses:

-----

COMMAND:                Press <PF1>H for help  Insert

```

Figure 3-5: Background Process Entry/Edit screen

5. Press Enter until the cursor is at the line following the “Client Addresses” prompt. Enter the IP address of the client and press Enter.
6. At the “Are you adding ‘<IP address>’ as a new CLIENT IP ADDRESS?” prompt, type **Y** (Yes) and press Enter.

```

*** Background Process Entry/Edit ***   Screen 1 of 3

Name: HL IHS CDMP OUT
Active: ACTIVE      Priority:
Device:
Routine: INHVTAPT
Destination: HL IHS CDMP OUT
Destination Determination Code:

Client/Server: CLIENT      Connection Type: TRANSIENT
Server Ports:

Client Addresses:
161.223.91.227

-----
Are you adding '161.223.91.227' as a new CLIENT IP ADDRESS? No// Y

```

Figure 3-6: Adding a new client IP address

7. Press Enter until the cursor is at the line following the “IP Ports” prompt, then type **6661** and press Enter.
8. At the “Are you adding ‘6661’ as a new IP Port?” prompt, type **Y** (Yes) and press Enter.

```

+-----+
|          Ports for Client IP Addresses          |
| Client address: 161.223.91.227                  |
| IP Ports:                                     |
| 6661                                         |
|                                               |
+-----+
161.223.91.227

-----
Are you adding '6661' as a new IP PORT? No// Y

```

Figure 3-7: Adding IP Port 6661

Upon completion, an ALERT is sent to the user running the install.

### 3.4 Queue BCDM Job to run Nightly

1. At the “Select OPTION NAME” prompt, type **XUTM MGR** and press Enter.

```
Select OPTION NAME: XUTM MGR      Taskman Management

Schedule/Unschedule Options
One-time Option Queue
Taskman Management Utilities ...
List Tasks
Dequeue Tasks
Requeue Tasks
Delete Tasks
Print Options that are Scheduled to run
Cleanup Task List
Print Options Recommended for Queuing

Select Taskman Management Option: Schedule/Unschedule Options
```

Figure 3-8: Taskman Management menu

2. At the “Select Taskman Management Option” prompt, type **Schedule/Unschedule Options** and press Enter.
3. At the “Select OPTION to schedule or reschedule” prompt, type **BCDM CDMP NIGHTLY TASK** and press Enter.

```
Select OPTION to schedule or reschedule: BCDM CDMP NIGHTLY TASK
Send CDMP HL7 messages
...OK? Yes//
```

Figure 3-9: Scheduling a nightly task

4. At the “QUEUED TO RUN AT WHAT TIME” prompt, enter the date and time to run the task.
5. At the “QUEUED TO RUN ON VOLUME SET” prompt, enter the local volume set and press Enter.
6. At the “RESCHEDULING FREQUENCY” prompt, type **1D** and press Enter.
7. At the “SPECIAL QUEUING” prompt, type **Startup Persistent** and press Enter.
8. At the “COMMAND” prompt, type **Save** and press Enter.

```
      Edit Option Schedule
Option Name: BCDM CDMP NIGHTLY TASK
Menu Text: Send CDMP HL7 messages      TASK ID:
-----
QUEUED TO RUN AT WHAT TIME: JUN 30,2008@19:00
DEVICE FOR QUEUED JOB OUTPUT:
QUEUED TO RUN ON VOLUME SET: PRD
RESCHEDULING FREQUENCY: 1D
      TASK PARAMETERS:
      SPECIAL QUEUING: Startup Persistent
-----
Exit   Save   Next Page   Refresh
Enter a command or '^' followed by a caption to jump to a specific field.
COMMAND: SAVE           Press <PF1>H for help
```

Figure 3-10: Example of Taskman scheduling of BCDM CDMP nightly task

## 4.0 Package Management

The BCDM software depends uses the GIS software to send messages. All package management issues are addressed in the GIS Technical Manual since there is no GIS User Manual.

## 5.0 Package Operation

There is no user interaction; therefore, there are no package operations to define.

## **6.0 Installation Configuration**

N/A

## 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)