RESOURCE AND PATIENT MANAGEMENT SYSTEM

Diabetes Management System
(BDM)

Installation Guide and Release Notes

Version 2.0
June 2007

Preface

This manual contains the installation guide and release notes for the Diabetes Management System version 2.0 which adds a new GUI interface to the system. This interface is known as Visual DMS.

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1.0   Release Notes

The Diabetes Management System (BDM) is a Resource and Patient Management System (RPMS) software application designed for local monitoring of Diabetes care to patients with Diabetes. Version 2.0 provides the following upgrades:

- New GUI interface to the DM system. This interface is called Visual DMS.

1.1   New Features of the Diabetes Management System

New features introduced in 2006 include:

- Modified options for reviewing and updating required taxonomies.

- PCC Data Entry mnemonics:

  WC for documenting Waist Circumference, and

  REG to add patients to a Case Management Register of a provider's choice.

- An Electronic Audit (EAUD) option that selects Register patients for the National Standard IHS Diabetes Audit and the National Pre-Diabetes Audit based on Government Performance Result Act (GPRA) criteria. This facilitates comparison between Clinical Reporting System (CRS) Diabetes-related indicators and the traditional Diabetes Audit.

- A Pre-Diabetes Patient Care Summary Sheet on the PCC Health Summary.

- The most significant enhancement to version 2.0 is the incorporation of the new Graphical User Interface (GUI) capability – Visual Diabetes Management System.

1.2   Long-Standing Features

Long-standing features of the Diabetes Management System include:

- A Diabetes Register using the PCC Case Management System.

- A Diabetes Flow Sheet included on the PCC Health Summary.

- Monitoring and prompting of health maintenance reminders on the Health Summary.

- Standard nomenclature for recording diabetes exams and education on PCC forms.

- An automated Diabetes Program Audit report.

- Case Management System report options.

- Access to all PCC clinical data.

- E-mail bulletins identifying newly diagnosed diabetic patients or those with new complications.

1.3   Additional Features

In addition, the patient-focused system provides for:

- Automatic installation of the IHS Diabetes Register if it has not already been installed at a site.

- Installation of the IHS Pre-Diabetes Register if it has not already been installed at a site.

- Patient-focused case review and reporting.

- Simplified population of taxonomies of medications, laboratory tests, education topics, and health factors required by the Diabetes Management System.

- An automated Diabetic Program Audit report that can be generated for an individual patient, a template of patients, the entire IHS Diabetes Register at a facility, or for a random sample of patients from the Register.

- An automated Pre-Diabetes Program Audit report that can be generated for an individual patient, a template of patients, the entire IHS Pre-Diabetes Register at a facility, or for a random sample of patients from the Register.

- A Diabetes Patient Care Summary.

- Entry of a Register as the Subject for QMan searches.

- A PCC data entry option that allows update of Diabetes-related data as needed by Diabetes program staff.

- A menu of follow-up reports for identifying patients with unmet standards of care.

2.0   Installation Notes

- Prefix: BDM
- Current Version: 2.0

Note: Read entire Notes file prior to attempting any installation.

2.1   General Information

Make a copy of this distribution for off-line storage. Print all notes/readme files.

It is recommended that the terminal output during the installation be captured using an auxport printer attached to the terminal at which you are performing the software installation. This will insure a printed audit trail if any problems should arise.

Please Note:

- This distribution of the Diabetes Management System (BDM) contains Version 2.0 of the Diabetes Management System and the Graphical User Interface (GUI) front end to the system. You can install just the backend (i.e. the "roll and scroll") version 2.0 of the package or you can install both. There is no requirement to install the GUI front end.
- Please install version 2.0 of BDM (bdm_0200.k) at all sites regardless of whether the site opts to install and use the GUI portion of the package. Version 2.0 of BDM and the GUI front end have different requirements, so please take note of the requirements section for each piece of the software.

2.2   Contents of Distribution

- bdm_0200.k—Kids file containing software
- bdm_020i.pdf—Installation guide in PDF format (This manual)
- bdm_020t.pdf—Technical manual in PDF format
- bdm_020u.pdf—User Manual in PDF format
- bdm20.msi
- bdm20setup.exe

2.3   Requirements

- Kernel (XU) v8.0 through patch 1014
- FileMan (DI) v22 through patch 1003
- PCC Management Reports (APCL) v3.0 through patch 19
- PCC Data Entry (APCD) v2.0 through patch 9

- Health Summary (APCH) v2.0 through patch 15

- Taxonomy v5.1 through patch 9

- QMan v2.0 through patch 19

- Case Management (ACM) Version 2.0 through patch 6

2.4   Contents of Distribution for GUI Interface

- bdm20.msi

- bdm20setup.exe

2.5   Requirements for GUI Interface

If you are planning on installing and using the GUI DM interface, the following are additional requirements. If you are **not planning** on using the GUI you may ignore these requirements:

On the RPMS server:

- Kernel v8.0 through patch 1014

- FileMan v22 through patch 1003

- PCC Management Reports (APCL) v3.0 through patch 19

- PCC Data Entry (APCD) v2.0 through patch 9

- Health Summary (APCH) v2.0 through patch 15

- Taxonomy v5.1 through patch 9

- Diabetes Management System (BDM) v2.0 (installation instructions provided above)

- QMan v2.0 through patch 9

- Case Management (ACM) Version 2.0 through patch 6

- BMX v2.0

- .Net Framework v2.0

- Windows Installer v3.1

On the User (Client) PC:

- Windows XP Service Pack 2 or higher

3.0   Installation Instructions

Please Note:

- This distribution of the Diabetes Management System (BDM) contains Version 2.0 of BDM and the GUI front end to the system. You can install just the backend (i.e. the "roll and scroll") version 2.0 of the package or you can install both. There is no requirement to install the GUI front end.

- Please install version 2.0 of BDM (bdm_0200.k) at all sites regardless of whether the site opts to install and use the GUI portion of the package. Version 2.0 of BDM and the GUI front end have different requirements so please take note of the requirements section for each piece of the software.

In all UCI's running the Diabetes Management System:

1. Ensure that users are unable to use the Diabetes Management System for the duration of this installation. Installation takes approximately 5 minutes.

2. Save all routines (^%RS (MSM) or ^%RO (CACHE)) and globals (^%GS (MSM) or ^%GO (CACHE) in the BDM* namespace for use in returning to your existing version, if needed.

> Note: If this is a first time install, there will be no routines or globals in this namespace.

3. Delete all routines (^%RDEL(MSM) or ^%RDELETE(CACHE)) in the BDM namespace (if any exist).

> Note: This installation is a KIDS install. If you have any questions on how to do a KIDS installation, please contact your Area information systems support personnel.

4. Load the Distribution into KIDS using option 1 on the KIDS Installation menu. The distribution was released in a file named bdm_0200.k.

5. Verify the load using option 2 on the KIDS Installation menu.

6. List of Routines and Checksums for BDM 2.0 Build.

Routines and Checksums

Routine	Old – New	Patch List
BDMBUL	n/a	5885607
BDMBUL6	n/a	4371561
BDMDATE	n/a	722356
BDMEDTXT	n/a	15844989
BDMFDIC	n/a	4141415
BDMFEXIT	n/a	71104
BDMFFS	n/a	10423607

Routine	Old – New	Patch List
BDMFJE	n/a	265133
BDMFLM	n/a	3485956
BDMFLOW	n/a	14663447
BDMFMENU	n/a	3704719
BDMFTAX3	n/a	3948381
BDMFUTIL	n/a	14687671
BDMFZIS	n/a	2280298
BDMGE	n/a	14024470
BDMGEA	n/a	17417164
BDMGEB	n/a	5011646
BDMGPRPC	n/a	455093
BDMGR	n/a	12185115
BDMGRA	n/a	19577432
BDMGRB	n/a	16160983
BDMGRC	n/a	14147427
BDMGRPC	n/a	93531
BDMGT	n/a	15199603
BDMGTA	n/a	17096382
BDMGTB	n/a	11523252
BDMGU	n/a	19114545
BDMGUA	n/a	22783485
BDMGUB	n/a	10657785
BDMKILL	n/a	15947
BDMLET	n/a	23258327
BDMLPM	n/a	11913773
BDMPOST	n/a	5735516
BDMPREI	n/a	758608
BDMSDX	n/a	2000225
BDMSELFM	n/a	17337574
BDMTRANS	n/a	4005952
BDMVAG1	n/a	400944
BDMVAGL	n/a	695992
BDMVL	n/a	2339748
BDMVRL	n/a	7180214
BDMVRL1	n/a	1078301
BDMVRL2	n/a	5914574
BDMVRL3	n/a	10594632
BDMVRL4	n/a	14284517
BDMVRL41	n/a	8447712
BDMVRL42	n/a	9277833
BDMVRL43	n/a	8035811
BDMVRL5	n/a	9971978
BDMVRL6	n/a	10651165
BDMVRL7	n/a	14617353
BDMVRL8	n/a	5744764

Routine	Old – New	Patch List
BDMVU	n/a	1791600

Figure 3-1: List of routines

1. Consider using options 3 and 4 on the KIDS Installation menu to print and compare the Transport.

2. Install bdm_0200.k. This file is the KIDS file for the Diabetes Management System.

> Note: If you are **not** planning on installing the GUI front end you are finished.

To install the BDM GUI:

On the RPMS server:

1. Make sure BMX Version 2.0 has been installed in RPMS on the RPMS Server.

2. Make sure Taxonomy System Version 5.1 patch 9 has been installed in RPMS on the RPMS server.

3. Make sure PCC Management Reports (APCL) Version 3.0 patch 19 has been installed.

4. Make sure PCC Data Entry (APCD) Version 2.0 patch 9 has been installed.

5. Make sure Case Management (ACM) Version 2.0 patch 6 has been installed.

6. Mare sure BDM Version 2.0 has been installed in RPMS on the RPMS server. (see instructions above)

7. For each user who will be using the GUI front end to the DM system, assign option BDMGRPC as a secondary menu option with a synonym of BDMG.

8. For each user who will be using the GUI front end to the DM System, assign option BMXRPC as a secondary menu option with a synonym of BMX.

9. Set up port 10901 as the port to listen for the GUI connection:

   a. From menu BMXMENU choose Edit, type in 10901 as the port number, and respond to the questions as seen below:

```
    EDIT    Add/Edit BMXNet Monitor Entries
    STRT    Start All BMXNet Monitors
    STOP    Stop All BMXNet Monitors
 Select BMXNET MENU Option: EDIT  Add/Edit BMXNet Monitor Entries

Select BMXNET MONITOR PORT: 10901
  Are you adding '10903' as a new BMXNET MONITOR (the 1ST)? No// Y  (Yes)
PORT: 10901//
ENABLED: YES
INTEGRATED SECURITY: YES
SESSION NAMESPACE: (leave this blank)
```

Figure 3-2: Sample BMXMENU screen

    b.   Select the STRT option to start the Listener.

    c.   In TaskMan, schedule option BMX MONITOR START as a startup option if it is not already scheduled. Answer "S" to the special queuing prompt when scheduling this option. No other prompt needs to be filled in.

> Note: If you have already done this with a previous GUI installation this step is not necessary.

```
         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

   Select OPTION to schedule or reschedule: BMX MONITOR START

 Menu Text: Start All BMXNet Monitors          TASK ID:
_____

  QUEUED TO RUN AT WHAT TIME:

DEVICE FOR QUEUED JOB OUTPUT:

 QUEUED TO RUN ON VOLUME SET:

     RESCHEDULING FREQUENCY:

           TASK PARAMETERS:

           SPECIAL QUEUEING: STARTUP

_____
Exit     Save     Next Page     Refresh

Enter a command or '^' followed by a caption to jump to a specific field.
```

Figure 3-3: Scheduling options screen

On Each User (Client) PC:

1. If you have previously installed Visual DMS, please uninstall it using the Add/Remove Programs option under Windows Control Panel.

2. If you have a Microsoft .NET Framework 2.0 Beta 2, uninstall it using the Add/Remove Programs option under Windows Control Panel.

3. Open the Window folder containing the Distribution Files then double click bdm20setup.exe. If asked, accept the License Agreement and follow the instructions for downloading and installing Microsoft .Net Framework 2.0. This step takes approximately 20-30 minutes over a DSL connection.

> Note: If you already have the final release of Microsoft .NET Framework 2.0, you will not have to do this step.

> Note: Take all the default responses **except** when it asks who to install this for – change it from "Just Me" to "Everyone."
>
> If the software was previously installed (and even if the user has removed the Visual DMS from previous installs, as noted in Item #1), the user will be prompted to either Repair or Remove the current software. Select "Remove the current installed version."
>
> The file named bdm20.msi is not executed by the user. This file is simply utilized during the above install executions.

4. Double click the Visual DMS shortcut on your desktop.

5. Enter the IP address of the machine you are connecting to.

6. Enter Port number 10901 in the Port Number box, and click OK.

> Note: The only time you will have to change the above is if connecting to a different machine.

7. Enter your RPMS ACCESS and VERIFY code.

8. Select a Division, and click OK.

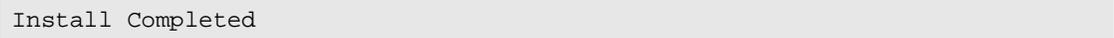9. You are now in the Visual DMS software.

4.0   Sample Installation

```
DUL 9d2>D ^XPDKRN
KIDS 8.0
Select KIDS OPTION: LOAD A DISTRIBUTION
Enter a Host File: C:\current build - dms 2005\bdm_0200.k
KIDS Distribution saved on Apr 19, 2007@08:42:57
Comment: DMS Version 2.0 with Visual DMS
This Distribution contains Transport Globals for the following Package(s):
Build BDM 2.0 has been loaded before, here is when:
      BDM 2.0   Install Completed
                was loaded on Aug 21, 2006@21:00:26
OK to continue with Load? NO// YES
Distribution OK!
Want to Continue with Load? YES//
Loading Distribution...
Build BDM 2.0 has an Environmental Check Routine
Want to RUN the Environment Check Routine? YES//
   BDM 2.0
Will first run the Environment Check Routine, BDMPOST
                        Patch "ACM*2.0*6" is installed.
Use INSTALL NAME: BDM 2.0 to install this Distribution.
DUL 9d2>D ^XPDKRN

KIDS 8.0
Select KIDS OPTION: INSTALL PACKAGE(S)
Select INSTALL NAME:   BDM 2.0     Loaded from Distribution     Loaded
from Distribution  4/26/07@12:44:37
     => DMS Version 2.0 with Visual DMS  ;Created on Apr 19, 2007@08:42:57

This Distribution was loaded on Apr 26, 2007@12:44:37 with header of
   DMS Version 2.0 with Visual DMS  ;Created on Apr 19, 2007@08:42:57
   It consisted of the following Install(s):
        BDM 2.0
Checking Install for Package BDM 2.0
Will first run the Environment Check Routine, BDMPOST
                        Patch "ACM*2.0*6" is installed.
Install Questions for BDM 2.0
Incoming Files:
   9003201   DMS LETTERS
Note:  You already have the 'DMS LETTERS' File.
   9003201.4 DMS GUI REPORT OUTPUT
Install Started for BDM 2.0 :
              Apr 26, 2007@12:44:44
Build Distribution Date: Apr 19, 2007
 Installing Routines:
              Apr 26, 2007@12:44:44
 Installing Data Dictionaries:
              Apr 26, 2007@12:44:44
 Installing PACKAGE COMPONENTS:
 Installing SECURITY KEY
 Installing FORM
 Installing PROTOCOL
 Installing REMOTE PROCEDURE
 Installing LIST TEMPLATE
 Installing OPTION
              Apr 26, 2007@12:44:46
 Running Post-Install Routine: V2POST^BDMPOST
Sending Mailman message to holders of the BDMZMENU security key....
BDM 2.0 Installed
              Apr 26, 2007@12:44:47
Not a VA primary domain
```

```
Install Completed
```

Figure 4-1: Sample installation screen

5.0   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