RESOURCE AND PATIENT MANAGEMENT SYSTEM

Clinical Reporting System

(BGP)

Installation Guide and Release Notes

Version 23.1
July 2023
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Preface

The Government Performance and Results Act (GPRA) requires federal agencies to report annually on how the agency measured against the performance targets set in its annual plan. The Indian Health Service (IHS) GPRA measures include clinical prevention and treatment, quality of care, infrastructure, and administrative efficiency functions.

The IHS Clinical Reporting System (CRS) is a Resource and Patient Management System (RPMS) software application designed for national reporting, as well as Area Office and local monitoring of clinical GPRA and developmental measures. CRS was first released for FY 2002 performance measures (as GPRA+) and is based on a design by the Aberdeen Area Office (GPRA2000).

This manual provides installation instructions for CRS Version 23.1. Version 23.1 adds fiscal year (FY) 2023 clinical performance measures to existing FY 2002 through FY 2022 measures.

CRS is the reporting tool used by the IHS Office of Planning and Evaluation to collect and report clinical performance results annually to the Department of Health and Human Services and to Congress.

Each year, an updated version of CRS software is released to reflect changes in the logic descriptions of the different denominators and numerators. Additional performance measures may also be added. Local facilities can run reports as often as desired and can also use CRS to transmit data to their Area Office. The Area Office can use CRS to produce an aggregated Area Office report for either annual GPRA or Area Office director performance reports.

CRS produces reports on demand from local RPMS databases for both GPRA and developmental clinical performance measures that are based on RPMS data, thus eliminating the need for manual chart audits for evaluating and reporting clinical measures.

To produce reports with comparable data across every facility, the GPRA measures definitions were translated into programming code with the assistance of clinical subject matter experts. CRS uses predefined taxonomies to find data items in the RPMS Patient Care Component to determine if a patient meets the performance measure criteria. Taxonomies contain groups of codes (e.g., diagnoses or procedures) or site-specific terms. Each performance measure topic has one or more defined denominators and numerators.
Administrative and clinical users can review individual or all measures at any time to:

- Identify potential data issues in their RPMS, for example, missing or incorrect data.
- Monitor their site’s performance against past national performance and upcoming agency goals.
- Identify specific areas where the facility is not meeting the measure to initiate business-process or other changes.
- Quickly measure the impact of process changes on performance measures.
- Identify IHS Area Offices meeting or exceeding measures to provide lessons learned.

RPMS CRS Users include:

- Area Office and site quality improvement staff.
- Compliance officers.
- GPRA coordinators.
- Clinical staff, such as physicians, nurses, nurse practitioners, and other providers.
- Area Office directors.
- Any staff involved with quality assurance initiatives.
- Staff who run the various CRS reports.
1.0 Release Notes

This manual provides user instructions on installing Version 23.1 of the Clinical Reporting System (CRS). The manual provides installation instructions for both the RPMS server-side software and the Visual CRS graphical user interface (GUI).

1.1 Key Changes in v23.1

1.1.1 Logic Changes to National GPRA/GPRAMA Report Measures

- GPRA Developmental Measures:
  - Added the following GPRA Developmental topics:
    - Diabetes: Blood Pressure Control
    - Diabetes: Nephropathy Assessment
    - Screening for Substance Use
    - Syphilis Screening
  - Added a new measure to Statin Therapy to Reduce Cardiovascular Disease Risk in Patients with Diabetes topic.
  - Updated codes and/or logic in the following topics: Statin Therapy to Reduce Cardiovascular Disease Risk in Patients with Diabetes topic; Access to Dental Service; Dental Sealants; Topical Fluoride; Adult Immunizations; Childhood Immunizations; Substance Use Disorder (SUD) in Women of Childbearing Age; Weight Assessment and Counseling for Nutrition and Physical Activity; Cardiovascular Disease and Blood Pressure Control; Appropriate Medication Therapy after a Heart Attack; HIV Screening; HIV Quality of Care; Hepatitis C Screening; Chlamydia Testing; Proportion of Days Covered by Medication Therapy; Concurrent Use of Opioids and Benzodiazepines; Optometry.

- Diabetes: Blood Pressure Control:
  - Removed ICD-9 diagnosis codes from BP documented definition.

- Statin Therapy to Reduce Cardiovascular Disease Risk in Patients with Diabetes:
  - Added ICD-10 Procedure codes 0210344, 02103D4, 0210444, 02104D4, 0211344, 02113D4, 0211444, 02114D4, 0212344, 02123D4, 0212444, 0212483, 02124D4, 0213344, 02133D4, 0213444, 02134D4 to CABG definition.
  - Added CPT codes 33510-33514, 33516-33519, 33521-33523, 33533-33536, S2205-S2209 to CABG definition to align with eCQM.
- Updated the following SNOMED data sets: PXRM BGP ECQM MI, PXRM BGP ECQM CD STROKE TIA, PXRM BGP ECQM CABG, PXRM BGP ECQM STATIN ADV, PXRM BGP ECQM LIVER DIS, PXRM BGP IPC HOSPICE, PXRM BGP ECQM PALLIATIVE ENC, PXRM BGP IPC NOT DONE MED.
- Updated Rhabdomyolysis definition to use SNOMED data set PXRM BGP ECQM RHABDO.
- Updated Hepatitis A definition to use SNOMED data set PXRM BGP IPC HEP A EVID.
- Updated Hepatitis B definition to use SNOMED data set PXRM BGP ECQM HEP B.
- Removed ICD-9 diagnosis code from breastfeeding, Hepatitis A and Hepatitis B definitions.
- Removed HCPCS codes G0308-G0327, G0392, G0393 from ESRD definition (codes are either discontinued or have been reused) and added codes M1187, M1188.
- Removed HCPCS codes G0290, C9600, C9602, C9604, C9606, C9607 from PCI definition to align with eCQM.
- Removed HCPCS M1017 from palliative care definition (code is discontinued).
- Removed ICD-10 code Z22.51 from Hepatitis B definition.
- Updated medication taxonomy BGP PQA STATIN MEDS.

• Diabetes: Nephropathy Assessment:
  - Removed HCPCS codes G0308-G0327, G0392, G0393 from ESRD definition (codes are either discontinued or have been reused) and added codes M1187, M1188.

• Diabetic Retinopathy:
  - Removed ICD-9 procedure codes from diabetic retinal exam definition.

• Access to Dental Service:
  - Removed ICD-9 diagnosis code from documented dental visit definition.
  - Removed IHS Dental Tracking code 0007 from documented dental visit definition.

• Topical Fluoride:
  - Removed ICD-9 diagnosis from topical fluoride application definition.

• Influenza:
  - Removed HCPCS code G8108 from influenza definition (code is discontinued).
• Adult Immunizations:
  − Removed HCPCS code G8108 from influenza definition (code is discontinued).
  − Removed HCPCS code G8115 from pneumococcal definition (code is discontinued).

• Childhood Immunizations:
  − Removed HCPCS codes Q3021, Q3023 from Hepatitis B definition (codes are discontinued).
  − Removed HCPCS code G8115 from pneumococcal definition (code is discontinued).
  − Removed ICD-9 diagnosis codes from Hepatitis B definition.

• Cervical Cancer Screening:
  − Added LOINC codes 93777-1, 93778-9, 94425-6 to BGP HPV LOINC CODES taxonomy.

• Colorectal Cancer Screening:
  − Removed HCPCS codes G0213-G0215, G0231 from colorectal cancer definition (codes are discontinued).
  − Removed HCPCS codes G0107, G0394 from FIT definition (codes are discontinued).

• Tobacco Use and Exposure Assessment:
  − Removed ICD-9 diagnosis codes from tobacco screening, tobacco user, and smokers definitions.
  − Added HCPCS G0030 to tobacco screening definition.
  − Removed HCPCS codes G0375, G0376, G8455-G8457, G8402, G8453 from tobacco screening, tobacco users, smokers, and smokeless definitions (codes are discontinued).

• Tobacco Cessation:
  − Added HCPCS G0030 to tobacco cessation definition.
  − Removed HCPCS codes G0375, G0376, G8402, G8453 from tobacco cessation counseling definition (codes are discontinued).

• Alcohol Screening:
  − Removed ICD-9 diagnosis and procedure codes from alcohol screening, alcohol-related diagnosis or procedure, and alcohol-related patient education definitions.

• Screening, Brief Intervention, and Referral to Treatment (SBIRT):
- Removed ICD-9 diagnosis code from screening for risky or harmful alcohol use definition.

- Intimate Partner (Domestic) Violence Screening:
  - Removed ICD-9 diagnosis codes from IPV/DV diagnosis and IPV/DV counseling definitions.

- Depression Screening:
  - Removed ICD-9 diagnosis codes from depression screening and mood disorder definitions.

- Controlling High Blood Pressure – Million Hearts:
  - Removed ICD-9 diagnosis and procedure codes from pregnancy, miscarriage, and abortion definitions.
  - Removed HCPCS codes G0308-G0327, G0392, G0393 from ESRD definition (codes are either discontinued or have been reused) and added codes M1187, M1188.

- Statin Therapy for the Prevention and Treatment of Cardiovascular Disease:
  - Added ICD-10 Procedure codes 0210344, 02103D4, 0210444, 02104D4, 0211344, 02113D4, 0211444, 02114D4, 0212344, 02123D4, 0212444, 0212483, 02124D4, 0213344, 02133D4, 0213444, 02134D4 to CABG definition.
  - Added CPT codes 33510-33514, 33516-33519, 33521-33523, 33533-33536, S2205-S2209 to CABG definition to align with eCQM.
  - Updated the following SNOMED data sets: PXRM BGP ECQM MI, PXRM BGP ECQM CD STROKE TIA, PXRM BGP ECQM CABG, PXRM BGP ECQM STATIN ADV, PXRM BGP ECQM LIVER DIS, PXRM BGP IPC HOSPICE, PXRM BGP ECQM PALLIATIVE ENC, PXRM BGP IPC NOT DONE MED.
  - Updated Rhabdomyolysis definition to use SNOMED data set PXRM BGP ECQM RHABDO.
  - Updated Hepatitis A definition to use SNOMED data set PXRM BGP IPC HEP A EVID.
  - Updated Hepatitis B definition to use SNOMED data set PXRM BGP ECQM HEP B.
  - Removed ICD-9 diagnosis code from breastfeeding, Hepatitis A and Hepatitis B definitions.
  - Removed HCPCS codes G0308-G0327, G0392, G0393 from ESRD definition (codes are either discontinued or have been reused) and added codes M1187, M1188.
- Removed HCPCS codes G0290, C9600, C9602, C9604, C9606, C9607 from PCI definition to align with eCQM.
- Removed HCPCS M1017 from palliative care definition (code is discontinued).
- Removed ICD-10 code Z22.51 from Hepatitis B definition.
- Updated medication taxonomy BGP PQA STATIN MEDS.
- HIV Screening:
  - Removed ICD-9 diagnosis and procedure codes from pregnancy, miscarriage, and abortion definitions.

1.1.2 Key Logic Changes to Non-GPRA Measures

For key logic changes to non-GPRA measures, please refer to the CRS 2023 (Version 23.1) Selected Measures Report Performance Measure List and Definitions document located on the CRS website:
https://www.ihs.gov/crs/software/fy23/.

1.1.3 Additional Key Enhancements and Revisions

- Added Service code M (telemedicine) to allowable service codes for User Population denominator definitions.

1.1.4 Feature Numbers Included in Release

- 87500 – Statin Therapy measure updates - 2023 eCQM
- 92410 – Copy CRS files to v23.1 and update menus
- 92411 – Export files
- 92412 – Summaries
- 92413 – Lab/Medication Taxonomies
- 92414 – Manuals
- 92415 – GUI - add new version + testing
- 92416 – GUI - Help File
- 93687 – Substance Use Disorder (SUD) in Women of Childbearing Age
- 93688 – Streamline CABG and PCI definitions
- 93689 – Denominator definitions - include Telemedicine
• 93690 – Dental Visit definition - remove code
• 93691 – Syphilis Screening measure
• 93692 – Tobacco measures - New HCPCS codes
• 93693 – Remove ICD-9 codes from pregnancy logic
• 93694 – Remove ICD-9 codes from other logic
• 93695 – DM Blood Pressure Control - GPRA Developmental measure
• 93696 – Diabetes: Nephropathy Assessment - ESRD
• 93697 – Statin Therapy measure updates - GPRA Developmental
• 93698 – DM Blood Pressure Control - Elder Care
• 93699 – Alcohol Screening
• 93700 – SBIRT
• 93701 – New Screening for Substance Use measures
• 93702 – Remove Reused, Discontinued HCPCS codes
• 93702 – Remove Reused, Discontinued HCPCS codes
2.0 Installation Notes

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

**Prefix:** BGP  
**Current Version:** 23.1

**Note:** This distribution of the CRS contains Version 23.1 of CRS and the GUI front end to the CRS system. The server-side (i.e., “roll-and-scroll” or backend) version 23.1 of the package can be installed alone or with both the GUI and the server-side versions. Currently, there is no requirement to install the GUI.

Please install version 23.1 of CRS (bgp_2310.k) at all sites regardless of whether the site opts to install and use the GUI portion of the package. Version 23.1 of CRS and the GUI have different requirements; please take note of the requirements section for each piece of the software.

2.1 CRS Distribution Contents and Required Resources

2.2 Contents of Distribution

<table>
<thead>
<tr>
<th>File</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>bgp_2310.k</td>
<td>Kernel Installation and Distribution System (KIDS) file containing software</td>
</tr>
<tr>
<td>bgp_231i.pdf</td>
<td>Installation guide in PDF format (this manual)</td>
</tr>
<tr>
<td>bgp_231t.pdf</td>
<td>Technical Manual in PDF format</td>
</tr>
<tr>
<td>bgp_231u.pdf</td>
<td>User Manual in PDF format</td>
</tr>
<tr>
<td>bgp_231u_visual.pdf</td>
<td>Visual CRS User Manual in PDF format</td>
</tr>
<tr>
<td>bgp_2310client.zip</td>
<td>Visual CRS software for Client's PC</td>
</tr>
</tbody>
</table>

2.2.1 Required Resources

- Kernel v8.0 Patch 1018 (XU*8.0*1018) or later.
- FileMan v22.0 Patch 1018 (DI*22.0*1018) or later.
• Taxonomy v5.1 Patch 48 or later must be installed (atx_0510.48k, atx*5.1*48).
• IHS Clinical Reporting System version 23.0 must be installed (bgp_2300.k).

2.3 Visual CRS (GUI) Distribution Contents and Required Resources

2.3.1 Contents of GUI CRS Distribution
• bgp_2310client.zip.
The following two files are contained in the zip file:
• bgp_2310setup.exe.
• bgp_2310.msi.

2.3.2 Required Resources for GUI CRS
Additional requirements for installing and using Visual CRS on a client’s PC:
• On the RPMS Server:
  − BMX v4.0.
  − IHS Clinical Reporting System v23.1.
• On the Client (User’s) PC:
  − Windows XP Service Pack 3 or higher.
  − Microsoft Office 2003 or later.
  − .NET Framework v4.0.

**Note:** If the CRS GUI will not be installed, ignore these requirements.

If the .NET Framework v4.0 is not installed, it will automatically be downloaded and installed when the client installation is started.

2.4 Before You Begin: Installation Issues
1. Make a copy of this distribution for offline storage.
2. Print all notes/readme files.
3. Create a printed audit trail in case there are any problems with the installation.
To capture terminal output during the installation, use an auxport printer attached to the terminal on which the installation is being performed.
3.0 Installation Instructions

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

In all UCIs running the IHS CRS:

1. Ensure that users are unable to use the CRS for the duration of this installation.

2. Save all routines (^%RO (CACHE) in the BGPP* namespace for use in returning to the prior existing version, if needed.

If no problems are noted with the new installation, remove saved routines from your system seven to ten days after this install.

3. Install bgp_2310.k. This is the KIDS file for the IHS CRS:

   a. Load the distribution into KIDS using Option 1 on the KIDS Installation menu. The distribution was released in a file named bgp_2310.k.

   b. Verify the load using Option 2 on the KIDS Installation menu.

   c. Consider using Options 3 and 4 on the KIDS Installation menu to print and compare the Transport global.

   d. Install the distribution using Option 6 on the Installation menu.

   e. To see results, use the KIDS Install File Print option to view/print the IHS CLINICAL REPORTING v23.1 entry.

Note: For assistance with a KIDS install, call the Area Office support personnel.

4. After the install completes, assign security keys, as appropriate, using Table 3-1.

Table 3-1: Assigning security keys

<table>
<thead>
<tr>
<th>Name</th>
<th>Descriptive Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BGPZAREA</td>
<td>BGP Area Report</td>
<td>This key unlocks the Area Office report options on the main BGPMENU. <strong>Note:</strong> This key should be assigned only at the Area Office level.</td>
</tr>
<tr>
<td>BGPZMENU</td>
<td>BGP Main Menu–CRS</td>
<td>This key unlocks the main CRS menu. It should be assigned to all users who need to run GPRA/CRS reports.</td>
</tr>
</tbody>
</table>
### Name | Descriptive Name | Description
--- | --- | ---
BGPZ PATIENT LISTS | BGP Patient Lists | This key allows the holder to obtain patient lists. The patient lists contain sensitive patient/clinical information. This key should be given *only* to those users who have a need for such information.
BGPZ SITE PARAMETERS | BGP Site Parameters | This key should be given to those with authority to update the site parameters.
BGPZ TAXONOMY EDIT | BGP Taxonomy Edit | This key should be given *only* to users who will need to update taxonomies.

#### 3.1 Installation of the CRS GUI

There are two parts to the CRS GUI install: installation on the RPMS server and installation on the local (client) PC. See the steps below for installation instructions.

##### 3.1.1 Installation on the RPMS Server

1. Make sure BMX v4.0 is installed in RPMS on the RPMS Server.
2. Make sure CRS v23.1 is installed in RPMS on the RPMS server. (See instructions above.)

**Note:** If a previous version of Visual CRS is being used you will not need to perform Steps 3 and 4. If this is the first time Visual CRS is being used, perform Steps 3 and 4.

3. Assign option **BGPGRPC** as a secondary menu option with a synonym of **BGPG** for each user.
4. Assign option **BMXRPC** as a secondary menu option with a synonym of **BMX** for each user.

##### 3.1.2 Installation on Each User’s (Client) PC

1. Place **bgp_2310client.zip** into a directory of your choice and unzip the file. There are two files included in the zip file: **bgp_2310.msi** and **bgp_2310setup.exe**.
2. Double-click the **bgp_2310setup.exe** file that was distributed with Visual CRS. If asked, accept the License Agreement, and follow the instructions for downloading and installing Microsoft .Net Framework v4.0. This will only occur if the most current version of Microsoft .Net Framework v4.0 is not on the local PC. This step takes approximately 20–30 minutes over a DSL connection.

3. Follow the prompts on the **Visual CRS Setup** screens and accept all the defaults.
4. Double-click the **Visual CRS** shortcut that displays on the desktop.

5. If this is the first install, a new connection must be added. Please refer to the *BMX 4.0 User Manual* for instructions.

6. When the **RPMS Login** window displays, enter the RPMS access, and verify codes and click **OK**.

7. If data for multiple facilities is stored on the same RPMS database, the **Select Division** window displays. Select a Division and click **OK**.

8. You are now running the Visual CRS software.
4.0 Sample Installations

4.1 Sample Installation of CRS on RPMS Server

CMBB>D ^XPDKRN

KIDS 8.0

Select KIDS OPTION: 1 LOAD A DISTRIBUTION
Enter a Host File: g:\pub\crs\23.1\bgp_2310.k

KIDS Distribution saved on May 16, 2023@11:06:49
Comment: IHS CLINICAL REPORTING V23.1

This Distribution contains Transport Globals for the following Package(s):
Build IHS CLINICAL REPORTING 23.1 has been loaded before, here is when:
  IHS CLINICAL REPORTING 23.1 Install Completed
    was loaded on Apr 03, 2023@14:58:10
  IHS CLINICAL REPORTING 23.1 Install Completed
    was loaded on Apr 04, 2023@10:53:35

OK to continue with Load? NO// y YES

Distribution OK!

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

Build IHS CLINICAL REPORTING 23.1 has an Environmental Check Routine
Want to RUN the Environment Check Routine? YES//
  IHS CLINICAL REPORTING 23.1
Will first run the Environment Check Routine, BGPPPOS

  Patch "XU*8.0*1018" is installed.
  Patch "DI*22.0*1018" is installed.
  Patch "ATX*5.1*48" is installed.

Use INSTALL NAME: IHS CLINICAL REPORTING 23.1 to install this Distribution.

CMBB>d ^XPDKRN

KIDS 8.0

Select KIDS OPTION: INSTALL PACKAGE(S)
Select INSTALL NAME:  IHS CLINICAL REPORTING 23.1  Loaded from Distribution
  5/16/23@11:26:17
  => IHS CLINICAL REPORTING V23.1  ;Created on May 16, 2023@11:06:49

This Distribution was loaded on May 16, 2023@11:26:17 with header of
  IHS CLINICAL REPORTING V23.1  ;Created on May 16, 2023@11:06:49
  It consisted of the following Install(s):
  IHS CLINICAL REPORTING 23.1
Checking Install for Package IHS CLINICAL REPORTING 23.1
Will first run the Environment Check Routine, BGPPPOS
Patch "XU*8.0*1018" is installed.
Patch "DI*22.0*1018" is installed.
Patch "ATX*5.1*48" is installed.
CRS (BGP) Version 23.0 is installed.

Install Questions for IHS CLINICAL REPORTING 23.1

Incoming Files:

90241.01  BGP CONTROL FILE  (including data)
Note:  You already have the 'BGP CONTROL FILE' File.
I will REPLACE your data with mine.

90241.02  BGP SITE PARAMETERS
Note:  You already have the 'BGP SITE PARAMETERS' File.

90241.03  BGP SUMMARY CATEGORIES  (including data)
Note:  You already have the 'BGP SUMMARY CATEGORIES' File.
I will REPLACE your data with mine.

90241.04  BGP CLIENT AUTOMATED GPRA EXTRACT PARAMS
Note:  You already have the 'BGP CLIENT AUTOMATED GPRA EXTRACT PARAMS' File.

90245     BGP AREA AUTOMATED GPRA PARAMS
Note:  You already have the 'BGP AREA AUTOMATED GPRA PARAMS' File.

90245.1   BGP GPRA FLAT FILE DATA
Note:  You already have the 'BGP GPRA FLAT FILE DATA' File.

90567.01  BGP 23 MEASURES  (including data)
Note:  You already have the 'BGP 23 MEASURES' File.
I will REPLACE your data with mine.

90567.02  BGP 23 INDIVIDUAL MEASURES  (including data)
Note:  You already have the 'BGP 23 INDIVIDUAL MEASURES' File.
I will REPLACE your data with mine.

90567.03  BGP 23 DATA CURRENT
Note:  You already have the 'BGP 23 DATA CURRENT' File.

90567.04  BGP 23 DATA PREVIOUS
Note:  You already have the 'BGP 23 DATA PREVIOUS' File.

90567.05  BGP 23 DATA BASELINE
Note:  You already have the 'BGP 23 DATA BASELINE' File.
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Note</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>90567.06</td>
<td>BGP 23 NATIONAL PATIENT LISTS (including data)</td>
<td>You already have the 'BGP 23 NATIONAL PATIENT LISTS' File.</td>
<td>I will REPLACE your data with mine.</td>
</tr>
<tr>
<td>90567.07</td>
<td>BGP 23 SNOMED SUBSETS (including data)</td>
<td>You already have the 'BGP 23 SNOMED SUBSETS' File.</td>
<td>I will REPLACE your data with mine.</td>
</tr>
<tr>
<td>90567.08</td>
<td>BGP 23 TAXONOMIES USED (including data)</td>
<td>You already have the 'BGP 23 TAXONOMIES USED' File.</td>
<td>I will REPLACE your data with mine.</td>
</tr>
<tr>
<td>90567.1</td>
<td>BGP 23 MEASURE GROUPS (including data)</td>
<td>You already have the 'BGP 23 MEASURE GROUPS' File.</td>
<td>I will REPLACE your data with mine.</td>
</tr>
<tr>
<td>90567.17</td>
<td>BGP 23 ICARE GROUPS (including data)</td>
<td>You already have the 'BGP 23 ICARE GROUPS' File.</td>
<td>I will REPLACE your data with mine.</td>
</tr>
<tr>
<td>90567.18</td>
<td>BGP 23 ICARE CATEGORIES (including data)</td>
<td>You already have the 'BGP 23 ICARE CATEGORIES' File.</td>
<td>I will REPLACE your data with mine.</td>
</tr>
<tr>
<td>90567.19</td>
<td>BGP 23 GUI REPORT OUTPUT</td>
<td>You already have the 'BGP 23 GUI REPORT OUTPUT' File.</td>
<td></td>
</tr>
<tr>
<td>90567.21</td>
<td>BGP 23 SNOMED LISTS (including data)</td>
<td>You already have the 'BGP 23 SNOMED LISTS' File.</td>
<td>I will REPLACE your data with mine.</td>
</tr>
<tr>
<td>90567.22</td>
<td>BGP 23 ELDER INDIVIDUAL MEASURES (including data)</td>
<td>You already have the 'BGP 23 ELDER INDIVIDUAL MEASURES' File.</td>
<td>I will REPLACE your data with mine.</td>
</tr>
<tr>
<td>90567.23</td>
<td>BGP 23 ELDER DATA CURRENT</td>
<td>You already have the 'BGP 23 ELDER DATA CURRENT' File.</td>
<td></td>
</tr>
<tr>
<td>90567.24</td>
<td>BGP 23 ELDER DATA PREVIOUS</td>
<td>You already have the 'BGP 23 ELDER DATA PREVIOUS' File.</td>
<td></td>
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<tr>
<td>90567.25</td>
<td>BGP 23 ELDER DATA BASELINE</td>
<td>You already have the 'BGP 23 ELDER DATA BASELINE' File.</td>
<td></td>
</tr>
<tr>
<td>90567.26</td>
<td>BGP 23 ELDER MEASURES (including data)</td>
<td>You already have the 'BGP 23 ELDER MEASURES' File.</td>
<td>I will REPLACE your data with mine.</td>
</tr>
</tbody>
</table>
Enter the Device you want to print the Install messages. 
You can queue the install by enter a 'Q' at the device prompt. 
Enter a '^' to abort the install.

DEVICE: HOME// Virtual

Install Started for IHS CLINICAL REPORTING 23.1 :
May 16, 2023@11:26:28

Build Distribution Date: May 16, 2023

Installing Routines: 
May 16, 2023@11:26:31

Running Pre-Install Routine: PRE^BGPPPOS

Installing Data Dictionaries:

Installing Data:
May 16, 2023@11:26:34

Installing PACKAGE COMPONENTS:

Installing SECURITY KEY

Installing INPUT TEMPLATE

Installing PROTOCOL

Installing REMOTE PROCEDURE

Installing LIST TEMPLATE

Installing OPTION
May 16, 2023@11:26:40

Running Post-Install Routine: POST^BGPPPOS
Updating [BGP ESRD CPTS] taxonomy...
Updating [BGP ECQM PCI CPTS] taxonomy...
Updating [BGP ECQM PALLIATIVE CARE CPTS] taxonomy...
Updating [BGP CPT FLU] taxonomy...
Updating [BGP PPSV23 CPT CODES] taxonomy...
Updating [BGP HEPATITIS CPTS] taxonomy...
Updating [BGP PNEUMO IZ CPTS] taxonomy...
Updating [BGP FOBT CPTS] taxonomy...
Updating [BGP TOBACCO SCREEN CPTS] taxonomy...
Updating [BGP SYPHILIS TEST CPTS] taxonomy...
Updating [BGP CD4 LOINC CODES] taxonomy...
Updating [BGP CHLAMYDIA LOINC CODES] taxonomy...
Updating [BGP CREATININE LOINC CODES] taxonomy...
Updating [BGP HEP C TEST LOINC CODES] taxonomy...
Updating [BGP HEP C CONF TEST LOINC] taxonomy...
Updating [BGP SYPHILIS LOINC CODES] taxonomy...
Updating [BGP HEDIS ACEI NDC] taxonomy...
Updating [BGP HEDIS ARB NDC] taxonomy...
Updating [BGP PQA BETA BLOCKER NDC] taxonomy...
Updating [BGP PQA ARB NEPROLYSIN NDC] taxonomy...
Updating [BGP PQA CCB NDC] taxonomy...
Updating [BGP PQA BIGUANIDE NDC] taxonomy...
Updating [BGP PQA SULFONYLUREA NDC] taxonomy...
Updating [BGP PQA THIAZOLIDINEDIONE NDC] taxonomy...
Updating [BGP PQA DPP IV NDC] taxonomy...
Updating [BGP PQA DIABETES ALL CLASS NDC] taxonomy...
Updating [BGP PQA STATIN NDC] taxonomy...
Updating [BGP PQA ANTIRETROVIRAL NDC] taxonomy...
Updating [BGP PQA NON-WARF ANTICOAG NDC] taxonomy...
Updating [BGP PQA WARFARIN NDC] taxonomy...
Updating [BGP PQA NEBSULIZED BRONCHO NDC] taxonomy...
Updating [BGP PQA LA INHALED BRONCHO NDC] taxonomy...
Updating [BGP PQA NON-INFUSED MS NDC] taxonomy...
Updating [BGP PQA INFUSED MS NDC] taxonomy...
Updating [BGP PQA ASTHMA INHALE STER NDC] taxonomy...
Updating [BGP PQA COPD NDC] taxonomy...
Updating [BGP PQA BENZODIAZ OP NDC] taxonomy...
Updating [BGP HEDIS ASTHMA NDC] taxonomy...
Updating [BGP HEDIS ASTHMA LEUK NDC] taxonomy...
Updating [BGP HEDIS ASTHMA INHALED NDC] taxonomy...
Updating [BGP HEDIS CONTRACEPTION NDC] taxonomy...
Updating [BGP HEDIS ISOTRETINOIN NDC] taxonomy...
Updating [BGP HEDIS ANTITHROMBOTIC NDC] taxonomy...
Updating [BGP HEDIS ANTI-INFECTIVE NDC] taxonomy...
Updating [BGP HEDIS CARDIOVASCULAR NDC] taxonomy...
Updating [BGP HEDIS CENTRAL NERVOUS NDC] taxonomy...
Updating [BGP HEDIS NONBENZODIAZ NDC] taxonomy...
Updating [BGP HEDIS ENDOCRINE NDC] taxonomy...
Updating [BGP HEDIS PAIN NDC] taxonomy...
Updating [BGP HEDIS SKL MUSCLE RELAX NDC] taxonomy...
Updating [BGP HPV LOINC CODES] taxonomy...
Updating [BGP PQA RASA NDC] taxonomy...
Updating [BGP PQA OPIOID NDC] taxonomy...
Updating [BGP HEDIS ANTIDEPRESSANT NDC] taxonomy...
Updating [BGP HEDIS ANTICHOLINERGIC NDC] taxonomy...
BGP CMS ACEI MEDS CLASS
Creating BGP CMS ACEI MEDS Taxonomy...
BGP CMS BETA BLOCKER CLASS BGP CMS BETA BLOCKER NDC
Creating BGP CMS BETA BLOCKER MEDS Taxonomy...
BGP CMS ANTI-BIOTICS MEDS CLASS
Creating BGP CMS ANTI-BIOTIC MEDS Taxonomy...
BGP CMS ARB MEDS CLASS
Creating BGP CMS ARB MEDS Taxonomy...
Creating DM AUDIT ASPIRIN DRUGS Taxonomy...
BGP CMS ANTI-PLATELET CLASS
Creating BGP ANTI-PLATELET DRUGS Taxonomy...
BGP CMS BETA BLOCKER DRUGS Taxonomy...
BGP CMS ANTI-BIOTICS DRUGS Taxonomy...
BGP CMS ARB DRUGS Taxonomy...
Creating BGP ASTHMA CONTROLLER NDC
Creating BGP ASTHMA CONTROLLERS Taxonomy...
BGP ASTHMA INHALED STEROID VAP
Creating BGP ASTHMA INHALED STEROIDS Taxonomy...
BGP CMS ANTI-BIOTIC MEDS Taxonomy...
Creating BGP CMS ANTI-BIOTIC MEDS Taxonomy...
Creating BGP ASTHMA LEUKOTRIENE NDC
Creating BGP ASTHMA LEUKOTRIENE Taxonomy...
<table>
<thead>
<tr>
<th>Clinical Reporting System (BGP)</th>
<th>Version 23.1</th>
</tr>
</thead>
</table>

### Sample Installations

- **BGP RA OA NSAID VAPI**
- **BGP RA GLUCOCORTICOID CLASS**
- **BGP RA GLUCOCORTICOID VAPI**
- **BGP HEDIS ANTIBIOTICS NDC**
- **BGP HEDIS ASTHMA LEUK NDC**
- **BGP HEDIS ASTHMA NDC**
- **BGP HEDIS ASTHMA MEDS Taxonomy...**
- **BGP HEDIS PRIMARY ASTHMA NDC**
- **BGP HEDIS PRIMARY ASTHMA MEDS Taxonomy...**
- **BGP HEDIS ASTHMA INHALED NDC**
- **BGP HEDIS ASTHMA INHALED MEDS Taxonomy...**
- **BGP HEDIS BETA BLOCKER NDC**
- **BGP HEDIS BETA BLOCKER MEDS Taxonomy...**
- **BGP RA IM GOLD NDC**
- **BGP RA IM GOLD MEDS Taxonomy...**
- **BGP RA AZATHIOPRINE VAPI**
- **BGP RA LEFLUNOMIDE VAPI**
- **BGP RA ORAL GOLD VAPI**
- **BGP HEDIS CYCLOSPORINE NDC**
- **BGP HEDIS CYCLOSPORINE MEDS Taxonomy...**
- **BGP RA METHOTREXATE VAPI**
- **BGP RA MYCOGENOLATE VAPI**
- **BGP RA PENICILLAMINE VAPI**
- **BGP HEDIS SULFASALAZINE VAPI**
- **BGP HEDIS CYCLOSPORINE MEDS Taxonomy...**
- **BGP HEDIS THROMBOLYTIC AGENT CLASS**
- **BGP HEDIS THROMBOLYTIC MEDS Taxonomy...**
- **BGP HEDIS ANTI-INFECTIVE NDC**
- **BGP HEDIS ANTI-INFECTIVE MEDS Taxonomy...**
- **BGP HEDIS CARDIOVASCULAR NDC**
- **BGP HEDIS CARDIOVASCULAR MEDS Taxonomy...**
- **BGP HEDIS CENTRAL NERVOUS NDC**
- **BGP HEDIS CENTRAL NERVOUS MEDS Taxonomy...**
- **BGP HEDIS ENDOCRINE NDC**
- **BGP HEDIS ENDOCRINE MEDS Taxonomy...**
- **BGP HEDIS GASTROINTESTINAL NDC**
- **BGP HEDIS GASTROINTESTINAL MEDS Taxonomy...**
- **BGP HEDIS PAIN NDC**
- **BGP HEDIS PAIN MEDS Taxonomy...**
- **BGP HEDIS SKL MUSCLE RELAX NDC**
- **BGP HEDIS SKL MUSCLE RELAX MEDS Taxonomy...**
- **BGP HEDIS ACEI NDC**
Creating BGP HEDIS ACEI MEDS Taxonomy...
  BGP HEDIS ARB NDC
Creating BGP HEDIS ARB MEDS Taxonomy...
  BGP HEDIS STATIN NDC
Creating BGP HEDIS STATIN MEDS Taxonomy...
  BGP CMS WARFARIN VAPI
Creating BGP CMS WARFARIN MEDS Taxonomy...
  BGP HEDIS ISOTRETINOIN NDC
Creating BGP HEDIS ISOTRETINOIN MEDS Taxonomy...
  BGP HEDIS CONTRACEPTION NDC
Creating BGP HEDIS CONTRACEPTION MEDS Taxonomy...
  BGP PQ A OPIOID NDC
Creating BGP PQ A OPIOID MEDS Taxonomy...
  BGP PQ A BENZODIAZ OP NDC
Creating BGP PQ A BENZODIAZ OP MEDS Taxonomy...
  BGP PQ A BETA BLOCKER NDC
Creating BGP PQ A BETA BLOCKER MEDS Taxonomy...
  BGP PQ A RASA NDC
Creating BGP PQ A RASA MEDS Taxonomy...
  BGP PQ A CCB NDC
Creating BGP PQ A CCB MEDS Taxonomy...
  BGP PQ A BIGUANIDE NDC
Creating BGP PQ A BIGUANIDE MEDS Taxonomy...
  BGP PQ A SULFONYLUREA NDC
Creating BGP PQ A SULFONYLUREA MEDS Taxonomy...
  BGP PQ A THIAZOLIDINEDIONE NDC
Creating BGP PQ A THIAZOLIDINEDIONE MEDS Taxonomy...
  BGP PQ A STATIN NDC
Creating BGP PQ A STATIN MEDS Taxonomy...
  BGP PQ A ANTIRETROVIRAL NDC
Creating BGP PQ A ANTIRETROVIRAL MEDS Taxonomy...
  BGP PQ A SABA NDC
Creating BGP PQ A SABA MEDS Taxonomy...
  BGP PQ A CONTROLLER NDC
Creating BGP PQ A CONTROLLER MEDS Taxonomy...
  BGP ASTHMA LABA NDC
Creating BGP ASTHMA LABA MEDS Taxonomy...
  BGP PQ A DPP IV NDC
Creating BGP PQ A DPP IV MEDS Taxonomy...
  BGP PQ A DIABETES ALL CLASS NDC
Creating BGP PQ A DIABETES ALL CLASS MEDS Taxonomy...
  BGP PQ A NON–WARF ANTICOAG NDC
Creating BGP PQ A NON–WARF ANTICOAG MEDS Taxonomy...
  BGP PQ A WARFARIN NDC
Creating BGP PQ A WARFARIN MEDS Taxonomy...
  BGP PQ A COPD NDC
Creating BGP PQ A COPD MEDS Taxonomy...
  BGP PQ A ASTHMA INHALE STER NDC
Creating BGP PQ A ASTHMA INHALE STER MED Taxonomy...
  BGP PQ A BENZODIAZ NDC
Creating BGP PQ A BENZODIAZ MEDS Taxonomy...
  BGP PQ A ARB NEPRILYSIN NDC
Creating BGP PQ A ARB NEPRILYSIN MEDS Taxonomy...
  BGP PQ A LA INHALED BRONCHO NDC
Creating BGP PQ A LA INHALED BRONCHO MED Taxonomy...
  BGP PQ A NEBULIZED BRONCHO NDC
Creating BGP PQ A NEBULIZED BRONCHO MEDS Taxonomy...
  BGP PQ A NON-INFUSED MS NDC
Creating BGP PQ A NON-INFUSED MS MEDS Taxonomy...
4.2 Sample Installation of the CRS GUI

1. Double-click `bgp_2310setup.exe` to launch the **Indian Health Service CRS Setup Wizard**.

2. The **Indian Health Service CRS Setup Wizard** dialog displays (Figure 4-2).
3. Click **Next** on the Setup Wizard dialog to display the **Select Installation Folder** dialog. See Figure 4-3.

![Indian Health Service CRS Setup Wizard, Select Installation Folder dialog](image)

Figure 4-3: Indian Health Service CRS Setup Wizard, Select Installation Folder dialog
4. Click **Next** to display the **Confirm Installation** dialog. See Figure 4-4.

![Confirm Installation dialog](image)

Figure 4-4: Indian Health Service CRS Setup Wizard, Confirm Installation dialog

5. Click **Next** to display the **Installing Indian Health Service CRS** dialog. See Figure 4-5.

![Installing Indian Health Service CRS dialog](image)

Figure 4-5: Indian Health Service CRS Setup Wizard, Installing Visual CRS dialog
6. Wait while the application installs. When the installation is complete, the **Installation Complete** dialog displays. See Figure 4-6.

![Indian Health Service CRS](image)

**Installation Complete**

Indian Health Service CRS has been successfully installed.
Click “Close” to exit.

Please use Windows Update to check for any critical updates to the .NET Framework.

![Figure 4-6: Indian Health Service CRS Setup Wizard, Installation Complete dialog](image)

7. Click **Close**.

A desktop shortcut named **CRS 23.1** should now be available. Refer to the user manual for instructions on use of the Visual CRS application.
5.0 Installation Configuration

The requirements for successful installation are listed in Sections 2.2.1 (KIDS build) and 2.3.2 (GUI install). There are no other reference materials other than this installation manual.
## Acronym List

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>BNI</td>
<td>Brief Negotiated Interview</td>
</tr>
<tr>
<td>CPT</td>
<td>Current Procedural Terminology</td>
</tr>
<tr>
<td>CRS</td>
<td>Clinical Reporting System</td>
</tr>
<tr>
<td>eCQM</td>
<td>Electronic Clinical Quality Measures</td>
</tr>
<tr>
<td>ENDS</td>
<td>Electronic Nicotine Delivery Systems</td>
</tr>
<tr>
<td>FY</td>
<td>Fiscal Year</td>
</tr>
<tr>
<td>GPRA</td>
<td>Government Performance and Results Act</td>
</tr>
<tr>
<td>GPRAMA</td>
<td>GPRA Modernization Act</td>
</tr>
<tr>
<td>GUI</td>
<td>Graphical User Interface</td>
</tr>
<tr>
<td>HEDIS</td>
<td>Healthcare Effectiveness Data and Information Set</td>
</tr>
<tr>
<td>ICD</td>
<td>International Classification of Diseases</td>
</tr>
<tr>
<td>IHS</td>
<td>Indian Health Service</td>
</tr>
<tr>
<td>IPC</td>
<td>Improving Patient Care</td>
</tr>
<tr>
<td>KIDS</td>
<td>Kernel Installation and Distribution System</td>
</tr>
<tr>
<td>LDL</td>
<td>Low-Density Lipoprotein</td>
</tr>
<tr>
<td>PPN</td>
<td>Patient Preferred Name</td>
</tr>
<tr>
<td>RPMS</td>
<td>Resource and Patient Management System</td>
</tr>
<tr>
<td>SBIRT</td>
<td>Screening, Brief Intervention, and Referral to Treatment</td>
</tr>
<tr>
<td>SNOMED</td>
<td>Systematized Nomenclature of Medicine</td>
</tr>
<tr>
<td>SUD</td>
<td>Substance Use Disorder</td>
</tr>
<tr>
<td>UCI</td>
<td>Unique Client Identifier</td>
</tr>
</tbody>
</table>
Contact Information

If you have any questions or comments regarding this distribution, please contact the IHS IT Service Desk.

Phone: (888) 830-7280 (toll free)
Web: https://www.ihs.gov/itsupport/
E-mail: itsupport@ihs.gov