



**RESOURCE AND PATIENT MANAGEMENT SYSTEM**

# **Clinical Reporting System (CRS) (BGP)**

## **Installation Guide and Release Notes**

**Version 8.0**  
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Office of Information Technology (OIT)  
Division of Information Resource Management  
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## PREFACE

This manual contains the installation manual for the CRS Clinical Reporting System version 8.0, which adds FY 2008 clinical performance measures to existing FY 2002 through FY 2006 measures.

The CRS Clinical Reporting System is an RPMS (Resource and Patient Management System) software application designed for national reporting as well as local and Area 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 (GPRA2000).

The Government Performance and Results Act (GPRA) requires Federal agencies to report annually on how the agency measured up against the performance targets set in its annual Plan. IHS GPRA measures include measures for clinical prevention and treatment, quality of care, infrastructure, and administrative efficiency functions. The CRS Clinical Reporting System 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 (DHHS) 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 they want to and can also use CRS to transmit data to their Area. The Area Office can use CRS to produce an aggregated Area report for either annual GPRA or Area Director Performance reports.

The CRS Clinical Reporting System will produce reports on demand from local RPMS databases for both GPRA and developmental clinical performance measures that are based on RPMS data. CRS is intended to eliminate the need for manual chart audits for evaluating and reporting clinical measures. Administrative and clinical users will be able to review individual or all measures at any time, and can:

- Identify potential data issues in their RPMS, i.e., 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 in order to initiate business process or other changes.
- Quickly measure impact of process changes on performance measures.
- Identify IHS Areas meeting or exceeding measures to provide lessons learned.

To produce reports with comparable data across every facility, the GPRA measure definition was "translated" into programming code with the assistance of clinical subject matter experts. CRS uses pre-defined taxonomies to find data items in PCC 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 denominators and numerators defined.

CRS is intended for use by Area and site Quality Improvement staff, Compliance Officers, GPRA Coordinators, clinical staff such as physicians, nurses, nurse practitioners, and other providers, Area Directors, as well as any staff involved with quality assurance initiatives.

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## TABLE OF CONTENTS

<b>1.0</b>	<b>Release Notes.....</b>	<b>1</b>
<b>2.0</b>	<b>Installation Notes .....</b>	<b>8</b>
	2.1 General Information .....	8
	2.2 Contents of Distribution.....	8
	2.3 Requirements .....	9
	2.4 Contents of Distribution for GUI Interface .....	9
	2.5 Requirements for GUI Interface .....	9
<b>3.0</b>	<b>Installation Instructions.....</b>	<b>10</b>
	3.1 Installation of the CRS GUI.....	11
<b>4.0</b>	<b>Sample Installation.....</b>	<b>15</b>
<b>5.0</b>	<b>Contact Information .....</b>	<b>28</b>

## 1.0 Release Notes

### Changes to GPRA Measures reported to Congress include:

- **Diabetes: Glycemic Control:** (1) Added CPT codes to A1c definition, (2) removed code from A1c LOINC taxonomy.
- **Diabetes: Blood Pressure Control:** Added CPT codes for blood pressure documented and uncontrolled blood pressure
- **Diabetes: LDL Assessment:** (1) Deleted the numerator for patients with a lipid profile or an LDL+HDL+TG, (2) added CPT codes to the LDL definition, (3) added code to LDL LOINC taxonomy, (4) renamed topic from Diabetes: Lipids Assessment to Diabetes: LDL Assessment..
- **Diabetes: Nephropathy Assessment:** (1) Added CPT, ICD-9 diagnosis, and ICD-9 procedure codes, (2) added codes to Estimated GFR LOINC taxonomy, (3) added codes to Quantitative Urine Protein Assessment LOINC taxonomy.
- **Diabetic Retinopathy:** (1) Added separate numerator for refusals and removed refusals from the diabetic retinal exam numerator, (2) added CPTs and an ICD9 procedure code to the Diabetic Retinal Exam definition, (3) added CPTs and procedure code to the Other Eye Exam definition, (4) deleted CPT 92287 from Other Eye Exam definition.
- **Dental Sealants:** Added logic limiting the number of sealants per tooth to two during the Report Period.
- **Adult Immunizations: Influenza:** (1) Added Immunization Package contraindications of "Egg Allergy" and "Anaphylaxis" to numerator logic, (2) added separate numerator for contraindications and NMI refusals, (3) moved NMI refusals to this numerator and out of the refusals numerator, (4) added CPTs to influenza definition, (5) deleted Parent Refusal since it does not apply to this age group.
- **Adult Immunizations: Pneumovax:** (1) Added Immunization Package contraindication of "Anaphylaxis" to numerator logic, (2) added separate numerator for contraindications and NMI refusals, (3) moved NMI refusals to this numerator and out of the refusals numerator, (4) added CPT codes to pneumovax definition, (5) removed V03.89, since it is a generic code and is not specific to pneumococcal, (6) deleted Parent Refusal since it does not apply to this age group.
- **Childhood Immunizations:** (1) Added contraindications from the Immunization Package as contraindications or evidence of disease for certain immunizations, (2) added HCPCS codes for Hepatitis B and Pneumococcal definitions, (3) removed CPT 90749 from DTaP definition since it is a generic (unlisted) code, (4) added CVX code 17 to HiB definition and refusal of HiB.
- **Cancer Screening: Pap Smear Rates:** (1) Added ICD-9 codes for diagnostic Pap smears, (2) added CPT 58956, CPT 58548, and POV 618.5 to hysterectomy definition, (3) removed ICD-9 procedure 68.9 from hysterectomy definition, (4) added ICD-9 codes 795.09 and V67.01 and

HCPCS G0101, G0123, G0124, G0141, G0143-G0145, G0147, G0148, P3000, and P3001 to Pap smear definition, (5) removed V76.49 from Pap smear definition, (6) removed several codes and added one code to LOINC taxonomy for Pap smear.

- **Cancer Screening: Mammogram Rates:** (1) Added ICD-9 codes for diagnostic mammograms, (2) added CPTs 77051-77054 and 76083 to mammogram and mammogram refusal definitions, (3) added new CPT codes to mastectomy definition.
- **Colorectal Cancer Screening:** (1) Added HCPCS G0328 to FOBT definition, (2) moved V76.51 from colonoscopy definition to FOBT definition, (3) added HCPCS codes G0213-G0215, G0231 to colorectal cancer diagnosis for denominator exclusion, (4) removed HCPCS G0106 and G0120 from DCBE definition, (5) revised logic to look for the most recent test the patient had during the applicable timeframes, (6) added CPT 44157 and 44158 to total colectomy definition and added G0394 to FOBT definition.
- **Tobacco Cessation:** (1) Added prescription for tobacco cessation aid for meeting the numerator, (2) added ICD-9 codes to patient education definition for tobacco cessation counseling, (3) added CPT II codes to tobacco user, tobacco counseling, and tobacco medication definitions, (4) added sub-numerator for refusal of counseling, (5) removed code V15.82 from tobacco users and tobacco cessation counseling and added it to quit tobacco use definition.
- **Alcohol Screening (FAS Prevention):** Added ICD-9 codes to patient education definition for alcohol screening.
- **Intimate Partner Violence/Domestic Violence Screening:** Added ICD-9 codes to patient education definition for domestic violence screening.
- **Comprehensive CVD-Related Assessment:** (1) Added CPT codes to LDL definition, (2) added code to LDL LOINC taxonomy, (3) added CPT II codes to tobacco screening definition, (4) added ICD-9 codes to tobacco screening patient education definition, (5) added ICD-9 codes for patient education relating to nutrition, exercise, and obesity, (6) added new CPT II codes for blood pressure definition.
- **Prenatal HIV Testing:** (1) Added ICD-9 code V72.42 and expanded ICD-9 range to 640.\*-649.\* (from 640.\*-648.\*) for pregnancy definition, (2) added CPT and ICD-9 procedure codes to abortion definition, (3) added codes to HIV Test LOINC taxonomy.

#### **Other National GPRA changes include:**

- Split the National GPRA Report and all related reports and patient lists into separate reports: National GPRA Report and a new Other National Measures (ONM) Report. **NOTE:** The Breastfeeding Rates topic is now included in the ONM Report.

- **New GPRA Measure Forecast Patient List:** Created to allow users to run a GPRA-measure forecast for individual patients, a clinic or facility's scheduled patients, or for any patient regardless of appointment status. This list uses modified National GPRA logic and indicates the GPRA measures will be due for during the GPRA year. It also includes information for the provider on how the measure can be met.

**New non-GPRA performance topics include:**

- Alcohol Screening and Brief Intervention (ASBI) in the ER
- Heart Failure and Evaluation of LVS Function
- Sexually Transmitted Infection (STI) Screening
- Palliative Care

**Other key logic changes to non-GPRA measures include:**

- **Diabetes Comprehensive Care:** (1) Added CPT, HCPCS, ICD-9 diagnosis, and ICD-9 procedure codes to the definition of ESRD, (2) added CPT codes to the LDL definition, (3) added code to LDL LOINC taxonomy, (4) added CPT II code to foot exam definition, (5) added CPT codes 83037, 3046F, and 3047F to A1c definitions, (6) added CPT II codes for BP, (7) removed LOINC code from A1c taxonomy, (8) added codes to Estimated GFR and Quantitative Urine Protein Assessment LOINC taxonomies.
- **Childhood Immunizations:** Same changes as listed in National GPRA measures section above and added the 4:3:1:3:3:1 numerator.
- **Adolescent Immunizations:** (1) Added denominator for AC patients 13-17, (2) removed UP denominator, (3) added numerators for 1:3:2:1 combination, including refusals, contraindications, and evidence of disease, (4) added numerators for Td/Tdap, including refusals, contraindications, and evidence of disease, (5) added Td and Tdap definitions to logic, (6) added contraindications from the Immunization Package as contraindications for certain immunizations, (7) added two numerators for 1 dose of meningococcal and 3 doses of HPV, (8) added new denominators for females only for age 13 and ages 13-17 for the HPV measure, (9) added HCPCS codes for Hepatitis B definition.
- **Appropriate Treatment for Children with Upper Respiratory Infection and Appropriate Treatment for Children with Pharyngitis:** (1) In list of antibiotic medications, added three groups of meds (Cefazolin, Cephadrine, and Lomefloxacin) and removed two groups (Dirithromycin and Flomefloxacin), (2) updated the medication taxonomy.
- **Cancer Screening: Mammogram Rates:** Same changes as listed in National GPRA measures section above and changed age range for 40+ denominator to 42+ denominator, since the minimum age for mammography

is 40 and this measure looks back 2 years, which would make the minimum age 40 (vs. 38).

- **Colorectal Cancer Screening:** Same changes as listed in National GPRA measures section above and added three numerators to the Selected Measures (Local) Report.
- **Tobacco Use and Exposure Assessment:** (1) Added ICD-9 V72.42 and expanded ICD9 range from 640.\*-649.\* (from 640.\*-648.\*) for pregnancy definition, (2) added ICD-9 codes to patient education definition for tobacco screening, (3) added CPT II codes to tobacco screening, tobacco users, smokers, and smokeless users definitions, (4) added CPT and ICD-9 procedure codes to abortion definition, (5) removed code V15.82 from tobacco users and smokers definitions.
- **Depression Screening:** Same changes as listed in National GPRA measures section above and: (1) Added ICD-9 codes to patient education definition for depression-related patient education, (2) added new denominators AC and UP patient 8-17, (3) fixed program logic for the Active IHD denominator. Previously it was not requiring the patient to meet both the Active Clinical definition AND meet the criteria relating to the IHD-related visits.
- **Antidepressant Medication Management:** (1) Added CPT codes to definitions for visits with mental health providers and non-mental health providers, (2) updated the medication taxonomy.
- **Nutrition and Exercise Education for At Risk Patients:** Added ICD-9 codes for patient education relating to nutrition and exercise education and obesity.
- **Cardiovascular Disease and Cholesterol Screening:** (1) Added CPT codes to LDL definition, (2) added code to LDL LOINC taxonomy, (3) added code to Total Cholesterol LOINC taxonomy, (4) fixed program logic for the Active IHD denominator. Previously it was applying the age range of 23 and older, when it should not have been.
- **Cardiovascular Disease and Blood Pressure Control:** (1) Added new CPT II codes to BP documented logic, (2) fixed program logic for the Active IHD denominator. Previously it was applying the age range of 20 and older, when it should not have been.
- **Controlling High Blood Pressure:** (1) Added CPT, HCPCS, ICD-9 diagnosis, and ICD-9 procedure codes to the ESRD definition, (2) revised denominator age range from 46-85 to 18-85, (3) added new CPT II codes to BP definition.
- **Appropriate Medication Therapy after A Heart Attack, Persistence of Appropriate Medication Therapy after A Heart Attack, Appropriate Medication Therapy in High Risk Patients:** (1) Added ICD-9 V72.42 and expanded ICD-9 range from 640.\*-649.\* (from 640.\*-648.\*) for pregnancy definition, (2) added CPT and ICD-9 procedure codes to abortion definition, (3) updated medication taxonomies BGP HEDIS ACEI MEDS, BGP HEDIS

ARB MEDS, BGP HEDIS BETA BLOCKER MEDS, (4) added code to ALT and AST taxonomies, (5) added code to Creatine Kinase taxonomy.

- **Cholesterol Management for Patients with Cardiovascular Conditions:** (1) Added CPT codes to LDL definition, (2) added code to LDL LOINC taxonomy, (3) revised timeframe for IVD definition in denominator, (4) added ICD-9 procedure codes 00.66, 36.06 and 36.07 to PTCA definition, (5) added HCPCS S2205-S2209 to CABG definition, (6) made the following changes for IVD definition: (A) removed different diagnosis categories and lumped them all into one (IVD), (B) added ICD-9 codes 414.8 and 414.9, (C) removed ICD-9 codes 443.9, 438.5\*, 438.6-438.9, 441.\*, 435.\*, 437.0, 437.1, and 438.0-438.42.
- **Prenatal HIV Testing:** Same changes as listed in National GPRA measures section above and added ICD-9 042 to HIV Counseling/Patient Education definition when searching for patient education codes by diagnosis.
- **HIV Quality of Care:** (1) Added codes to HIV Viral Load LOINC taxonomy, (2) made patient list available for this topic.
- **Chlamydia Testing:** Removed codes from LOINC taxonomy for Chlamydia test.
- **Osteoporosis Management:** (1) Added CPT codes 77078-77081 and 77083 and HCPCS G0130 to BMD test definition, (2) added CPTs 22520, 22521, 22523, 22524, 25606-25609, HCPCS S2360 and S2362, and ICD-9 procedure codes 81.65 and 81.66 to fracture definition, (3) removed codes 79.00, 79.09, 79.10, 79.19, 79.20, 79.29, 79.30, 79.39, and 79.60 from fracture definition, (4) removed fluoride, vitamin D, and calcium products from list of osteoporosis treatments medications and updated medication taxonomy.
- **Osteoporosis Screening in Women:** (1) Added CPT codes 77078-77081 and HCPCS G0130 to screening definition.
- **Rheumatoid Arthritis Medication Monitoring:** Added codes to ALT, AST, Creatinine, Glucose, and Potassium LOINC taxonomies.
- **Osteoarthritis Medication Monitoring:** Added codes to ALT, AST, and Creatinine LOINC taxonomies.
- **Asthma Quality of Care:** (1) Updated all the medication taxonomies used in this topic, (2) added ICD9 493.2\* to COPD definition, (3) revised ICD9 range from 506.\* to 506.4 in COPD definition.
- **Asthma and Inhaled Steroid Use:** (1) Added Mometasone to the drug taxonomy, (2) added exclusion logic to the denominator, (3) revised denominator criteria to check first for persistent asthma in ARS and if the patient is not found in ARS, then to check for asthma-related visits.
- **Chronic Kidney Disease Assessment:** (1) Revised logic to account for textual results of "<60" and ">60", (2) added numerator for patients with normal GFR ( $\geq 60$ ), (3) added codes to Creatinine and Estimated GFR LOINC taxonomies.

- **Prediabetes/Metabolic Syndrome:** (1) Added CPT, HCPCS, ICD-9 diagnosis, and ICD-9 procedure codes to the definition of ESRD, (2) added CPT codes to LDL definition, (3) added code to LDL LOINC taxonomy, (4) added CPT II codes to tobacco screening definition, (5) added ICD-9 codes for patient education relating to nutrition, exercise, and obesity, (6) added CPT II codes for BP documented definition, (7) added codes to Estimated GFR, Fasting Glucose, HDL, Quantitative Urine Protein Assessment, and Triglyceride LOINC taxonomies, (8) removed CPTs from HDL and Triglyceride definitions and required lab tests to have a non-null, numeric result since the logic was including patients with null results, (9) split fasting glucose definition into two definitions (one for denominator and one for numerator), where the denominator does not include POV 790.21 and it requires a lab test to have a non-null, numeric result since the logic was including patients with null results.
- **Drugs to be Avoided in the Elderly:** (1) Added Ephedrine and Theophylline to BGP HEDIS ANTIHISTAMINE MEDS, (2) added Dexmethylphenidate and deleted Pemoline (Cyclert) from BGP HEDIS AMPHETAMINE MEDS, (3) added Amytal to BGP HEDIS BARBITURATE MEDS, (4) added Estradiol, and Ethinyl estradiol to BGP HEDIS ORAL ESTROGEN MEDS, (5) deleted Cyclandelate (Cyclospasmol) from BGP HEDIS VASODILATOR MEDS, (6) added Atropine injectable, Cyclandelate, Diazepam injectable, Dicyclomine injectable, Diphenhydramine injectable, Dipyrindamole injectable, Hydroxyzine injectable, Ketorolac injectable, Meperidine injectable, Mesoridazine, Methocarbamol injectable, Orphenadrine injectable, Pemoline, Pentazocine, Pentobarbital, Promethazine, Premarin injectable, Rectal Diastat, Scopolamine injectable, patches, and Trimethobenzamide to BGP HEDIS OTHER MEDS AVOID ELD, (7) updated the following taxonomies: BGP HEDIS ANTIANXIETY MEDS, BGP HEDIS ANTIEMETIC MEDS, BGP HEDIS ANALGESIC MEDS, BGP HEDIS ANTIPSYCHOTIC MEDS, BGP HEDIS BENZODIAZEPINE MEDS, BGP HEDIS OTHER BENZODIAZEPINE, BGP HEDIS CALCIUM CHANNEL MEDS, BGP HEDIS GASTRO ANTISPASM MED, BGP HEDIS BELLADONNA ALKA MEDS, BGP HEDIS SKL MUSCLE RELAX MED, BGP HEDIS ORAL HYPOGLYCEMIC RX, and BGP HEDIS NARCOTIC MEDS.

**Additional key enhancements and revisions include the following:**

- **CMS Report:** (1) The CMS logic was updated per the CMS Specifications Manual for discharges effective 4/1/2007. (2) Four new hospital measures were added, two pneumonia measures and two measures in a new category of Surgical Care Improvement/Surgical Infection Prevention (SCIP). (3) The CMS report was completely redesigned to offer two separate patient lists for each of the 21 CMS measures, where one list applies denominator exclusion logic and the second does not. By having lists available for each measure, CRS is able to apply more exclusion logic than was previously applied. These

lists also show all of the data found electronically to assist the abstractor in determining if the patient should be included in the denominator and numerator. A third patient list is also available for each measure category that lists all patients in the entire measure group (e.g. list of all patients 18 and older discharged with heart failure).

- **Updated CRS GUI:** The optional CRS graphical user interface (GUI) has been updated to match all functionality available in the roll-and-scroll version of CRS.

## 2.0 Installation Notes

Prefix: BGP

Current Version: 8.0

**Note:** Read the 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.

***Important Note:***

This distribution of the Clinical Reporting System (CRS) contains Version 8.0 of CRS and the Graphical User Interface (GUI) front end to the CRS system. You can install just the server side (i.e. the “roll and scroll” or “backend”) version 8.0 of the package or you can install both. There is no requirement to install the GUI front end.

Please install version 8.0 of CRS (bgp\_0800.k) at all sites regardless of whether the site opts to install and use the GUI portion of the package. Version 8.0 of CRS 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

- bgp\_0800.k—Kids file containing software
- bgp\_080i.pdf—Installation guide in PDF format (this manual)
- bgp\_080t.pdf—Technical Manual in PDF format
- bgp\_080u.pdf—User Manual in PDF format
- bgp\_080o.pdf—Administrator Manual in PDF format
- bgp\_080og.pdf – GUI User Manual in PDF format
- bgp80client.zip – GUI software for Client’s PC

## 2.3 Requirements

- Kernel v8.0 or higher
- FileMan v21 or higher
- IHS Patient Dictionaries (AUPN) v99.1 through patch 18 (aupn\*99.1\*18)
- PCC Management Reports v3.0 through patch 20 (apcl\*3.0\*20)
- Taxonomy System v5.1 through patch 10 (atx\*5.1\*10)
- IHS Clinical Reporting System Version 7.0 through patch 2 (bgp\*7.0\*2)
- HIV Management System Version 1.0 through patch 3 (bkm\*1.0\*3)

## 2.4 Contents of Distribution for GUI Interface

- bgp80client.zip
  - The following 2 files are contained in the zip file:
    - bgp\_0800setup.exe
    - bgp\_0800.msi

## 2.5 Requirements for GUI Interface

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

### **On the RPMS server:**

- BMX Version 2.0
- IHS Clinical Reporting System V8.0 (CRS) (installation instructions provided above)

### **On the User's (Client) PC:**

- Windows XP Service Pack 2 or Higher
- Microsoft Word and Excel 2000 or Later

## 3.0 Installation Instructions

*Please Note:*

This distribution of the Clinical Reporting System (CRS) contains Version 8.0 of CRS and the Graphical User Interface (GUI) front end to the CRS system. You can install just the server (i.e. the “roll and scroll” or “backend”) version 8.0 of the package, or you can install both. There is no requirement to install the GUI front end. Please install version 8.0 of CRS (bgp\_0800.k) at all sites regardless of whether the site opts to install and use the GUI portion of the package. Version 8.0 of CRS and the GUI front end have different requirements so please take note of the requirements section for each piece of the software.

In all UCIs running the IHS CLINICAL Reporting System:

1. Ensure that users are unable to use the Clinical Reporting System for the duration of this installation. Installation takes approximately 10 minutes.
2. Save all routines (^%RS (MSM) or ^%RO (CACHE)) and globals (^%GS (MSM) or ^%GO (CACHE)) in the BGP8\* namespace for use in returning to your existing version, if needed. (Note: Remove saved routines from your system 7-10 days after this installation if no problems noted with new install).

PLEASE NOTE: **Do NOT** delete any of these routines prior to installation.

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

**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.

3. Install bgp\_0800.k. This file is the KIDS file for the Clinical Reporting System (CRS).
  - a. Load the Distribution into KIDS using option 1 on the KIDS Installation menu. The distribution was released in a file named bgp\_0800.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. For results, use the KIDS "Install File Print" option to view/print the “IHS CLINICAL REPORTING SYSTEM V8.0” entry.
  - e. If you need assistance With a KIDS install please call your Area Support personnel.

4. Assign security keys as appropriate per the table below. The BGPZAREA key should only be assigned if this package is being installed at an area office.

Name		
BGPZAREA	BGP AREA REPORT	This key unlocks the area report options on the main BGPMENU. This key should only be assigned at the Area office level.
BGPZMENU	BGP MAIN MENU - CRS	This key unlocks the main CRS menu. It should be assigned to all users who need to run GPRA/CRS reports.
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 only be given 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.

**Note:** If you are *not* planning to install the GUI front end, then you have finished.

### 3.1 Installation of the CRS GUI

To install the CRS GUI there are 2 stages to the install, the instructions for the RPMS server are in section A and the instructions for installation on the client's PC are in section B:

#### A. On the RPMS server:

1. Make sure BMX Version 2.0 has been installed in RPMS on the RPMS Server.
2. Make sure CRS Version 8.0 has been installed in RPMS on the RPMS server. (See instructions above.)

**Note:** If the user is already using a previous version of the Visual CRS product you will not need to do steps 3 to 5. If the site/user has never used a Visual CRS product before you will need to do steps 3 to 5.

3. For each user who will be using the GUI front end to CRS, assign option BGPGRPC as a secondary menu option with a synonym of **BGPG**.
4. For each user who will be using the GUI front end to CRS, assign option BMXRPC as a secondary menu option with a synonym of **BMX**.
5. Set up port *10903* as the port to listen for the GUI connection: (Please note that if you have already done this with a previous CRS installation this step is not necessary).

**Note:** If you are running in multiple Namespaces on the same machine, you must use a different port for each namespace. Start at 10910 and increment for each namespace.

- a) From menu **BMXMENU** choose **Edit**, type in **10903** as the port number or the port you designated if you are on a multiple namespace machine 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: 10903
Are you adding '10903' as a new BMXNET MONITOR (the 1ST)?
No// Y (Yes)
PORT: 10903//
ENABLED: YES
INTEGRATED SECURITY: NO
SESSION NAMESPACE: (leave this blank)

```

Figure 3-1: Sample of BMXMENU

- b) Select the **STRT** option to start the Listener.
- c) In taskmanager 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. (Please note that if you have already done this with a previous CRS 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 Queueing

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 3-2: Sample of BMX monitor start screen

**On each User's (client) PC:**

1. Place the file `bgp80client.zip` into a directory of your choice. Unzip the file. You will now have two files: `bgp_0800.msi` and `bgp_0800setup`.
2. If the user already has a previous version of the Visual CRS product installed, then remove the previously installed Visual CRS: Go to Control Panel then Add/Remove Programs and remove Visual CRS.
3. Double click **bgp\_0800setup.exe** that was distributed with Visual CRS. If asked, accept the License Agreement and follow the instructions for downloading and installing Microsoft .Net Framework 2.0 (this will only happen if you haven't previously downloaded the final released version of Microsoft.Net Framework 2.0). This step takes approximately 20-30 minutes over a DSL connection.

4. Follow the prompts on the Visual CRS Setup Screens, taking the defaults.
5. Double click the **Visual CRS shortcut** that appears on your desktop.
6. Enter the IP address of the machine to which you are connecting.
7. Enter port number *10903* or the port number you designated if a multiple namespace site, in the Port Number box, and the namespace of the database you are connecting to, click OK.

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

8. Enter your RPMS ACCESS and VERIFY codes.
9. Select a Division, and click **OK**.
10. You are now in the Visual CRS software.

## 4.0 Sample Installation

Select Kernel Installation & Distribution System Option:

```

KIDS   Kernel Installation & Distribution System ...
NTEG   Build an 'NTEG' routine for a package
PG     Programmer mode
       Calculate and Show Checksum Values
       Clean Error Trap
       Delete Unreferenced Options
       Error Processing ...
       Global Block Count
       List Global
       Map Pointer Relations
       Number base changer
       Routine Tools ...
       Test an option not in your menu

```

Select Programmer Options Option: KIDS 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: c:\rpms\bgp\v8.0\bgp\_0800.k

KIDS Distribution saved on Feb 08, 2008@10:46:45

Comment: IHS CLINICAL REPORTING V8.0 2-8-08

This Distribution contains Transport Globals for the following Package(s):

Build IHS CLINICAL REPORTING 8.0 has been loaded before, here is when:

```

IHS CLINICAL REPORTING 8.0   Install Completed
                               was loaded on Jan 30, 2008@08:40:46

```

OK to continue with Load? NO// y YES

Distribution OK!

Want to Continue with Load? YES//

Loading Distribution...

Build IHS CLINICAL REPORTING 8.0 has an Enviromental Check Routine

```
Want to RUN the Environment Check Routine? YES//
IHS CLINICAL REPORTING 8.0
Will first run the Environment Check Routine, BGP8POS

        Patch "ATX*5.1*10" is installed.
        Patch "BGP*7.0*2" is installed.
        Patch "BKM*1.0*2" is installed.
        Patch "AUPN*99.1*18" is installed.
        Patch "APCL*3.0*20" is installed.
Use INSTALL NAME: IHS CLINICAL REPORTING 8.0 to install this Distribution.

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: install Package(s)
Select INSTALL NAME: IHS CLINICAL REPORTING 8.0      Loaded from
Distribution
  Loaded from Distribution  2/8/08@10:51:14
    => IHS CLINICAL REPORTING V8.0  2-8-08  ;Created on Feb 08, 2008@10:46:

This Distribution was loaded on Feb 08, 2008@10:51:14 with header of
  IHS CLINICAL REPORTING V8.0  2-8-08  ;Created on Feb 08, 2008@10:46:45
  It consisted of the following Install(s):
IHS CLINICAL REPORTING 8.0
Checking Install for Package IHS CLINICAL REPORTING 8.0
Will first run the Environment Check Routine, BGP8POS

        Patch "ATX*5.1*10" is installed.
        Patch "BGP*7.0*2" is installed.
        Patch "BKM*1.0*2" is installed.
        Patch "AUPN*99.1*18" is installed.
        Patch "APCL*3.0*20" is installed.

Install Questions for IHS CLINICAL REPORTING 8.0

Incoming Files:

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

90533.01 BGP 08 MEASURES (including data)

Note: You already have the 'BGP 08 MEASURES' File.  
I will OVERWRITE your data with mine.

90533.02 BGP 08 INDIVIDUAL MEASURES (including data)

Note: You already have the 'BGP 08 INDIVIDUAL MEASURES' File.  
I will OVERWRITE your data with mine.

90533.03 BGP 08 DATA CURRENT

Note: You already have the 'BGP 08 DATA CURRENT' File.

90533.04 BGP 08 DATA PREVIOUS

Note: You already have the 'BGP 08 DATA PREVIOUS' File.

90533.05 BGP 08 DATA BASELINE

Note: You already have the 'BGP 08 DATA BASELINE' File.

90533.06 BGP 08 NATIONAL PATIENT LISTS (including data)

Note: You already have the 'BGP 08 NATIONAL PATIENT LISTS' File.  
I will OVERWRITE your data with mine.

90533.08 BGP 08 TAXONOMIES (including data)

Note: You already have the 'BGP 08 TAXONOMIES' File.  
I will OVERWRITE your data with mine.

90533.09 BGP 08 TAXONOMY TEMP (including data)

Note: You already have the 'BGP 08 TAXONOMY TEMP' File.  
I will OVERWRITE your data with mine.

90533.11 BGP 08 XP OUTPUT

Note: You already have the 'BGP 08 XP OUTPUT' File.

90533.12 BGP 08 PATIENT ED DATA CURRENT

Note: You already have the 'BGP 08 PATIENT ED DATA CURRENT' File.

90533.13 BGP 08 PATIENT ED DATA PREVIOUS

Note: You already have the 'BGP 08 PATIENT ED DATA PREVIOUS' File.

90533.14 BGP 08 PATIENT ED DATA BASELINE

Note: You already have the 'BGP 08 PATIENT ED DATA BASELINE' File.

90533.15 BGP 08 PAT ED MEASURES (including data)  
Note: You already have the 'BGP 08 PAT ED MEASURES' File.  
I will OVERWRITE your data with mine.

90533.17 BGP 08 ICARE GROUPS (including data)  
Note: You already have the 'BGP 08 ICARE GROUPS' File.  
I will OVERWRITE your data with mine.

90533.18 BGP 08 ICARE CATEGORIES (including data)  
Note: You already have the 'BGP 08 ICARE CATEGORIES' File.  
I will OVERWRITE your data with mine.

90534.01 BGP 08 HEDIS MEASURES (including data)  
Note: You already have the 'BGP 08 HEDIS MEASURES' File.  
I will OVERWRITE your data with mine.

90534.02 BGP 08 HEDIS INDIVIDUAL MEASURES (including data)  
Note: You already have the 'BGP 08 HEDIS INDIVIDUAL MEASURES' File.  
I will OVERWRITE your data with mine.

90534.03 BGP 08 HEDIS DATA CURRENT  
Note: You already have the 'BGP 08 HEDIS DATA CURRENT' File.

90534.04 BGP 08 HEDIS DATA PREVIOUS  
Note: You already have the 'BGP 08 HEDIS DATA PREVIOUS' File.

90534.05 BGP 08 HEDIS DATA BASELINE  
Note: You already have the 'BGP 08 HEDIS DATA BASELINE' File.

90534.08 BGP 08 GUI REPORT OUTPUT  
Note: You already have the 'BGP 08 GUI REPORT OUTPUT' File.

90535.01 BGP 08 CMS MEASURES (including data)  
Note: You already have the 'BGP 08 CMS MEASURES' File.  
I will OVERWRITE your data with mine.

90535.02 BGP 08 ELDER INDIVIDUAL MEASURES (including data)  
Note: You already have the 'BGP 08 ELDER INDIVIDUAL MEASURES' File.  
I will OVERWRITE your data with mine.

90535.03 BGP 08 ELDER DATA CURRENT  
Note: You already have the 'BGP 08 ELDER DATA CURRENT' File.



```
Installing OPTION
```

```
Feb 08, 2008@10:53:16
```

```
Running Post-Install Routine: POST^BGP8POS
Updating [BGP ABNORMAL GAIT OR MOBILITY] taxonomy...
Updating [BGP ACUTE MENTAL HEALTH] taxonomy...
Updating [BGP ALCOHOL DXS] taxonomy...
Updating [BGP ALCOHOL PROCEDURES] taxonomy...
Updating [BGP ALT CPT] taxonomy...
Updating [BGP ALT LOINC] taxonomy...
Updating [BGP AMI DXS (HEDIS)] taxonomy...
Updating [BGP AMI DXS PAMT] taxonomy...
Updating [BGP AMI IND 30] taxonomy...
Updating [BGP ASA ALLERGY 995.0-995.3] taxonomy...
Updating [BGP AST CPT] taxonomy...
Updating [BGP AST LOINC] taxonomy...
Updating [BGP ASTHMA DXS] taxonomy...
Updating [BGP ASTHMA INHALED STEROID NDC] taxonomy...
Updating [BGP BE CPTS] taxonomy...
Updating [BGP BILATERAL MASTECTOMY CPTS] taxonomy...
Updating [BGP BLOOD CULTURE LOINC] taxonomy...
Updating [BGP BMD CPTS] taxonomy...
Updating [BGP BMD DXS] taxonomy...
Updating [BGP BMD PROCEDURES] taxonomy...
Updating [BGP CABG CPTS] taxonomy...
Updating [BGP CABG PROCS] taxonomy...
Updating [BGP CAUSE OF INJURY ECODES] taxonomy...
Updating [BGP CBC CPT] taxonomy...
Updating [BGP CBC LOINC] taxonomy...
Updating [BGP CD4 LOINC CODES] taxonomy...
Updating [BGP CHLAMYDIA CPTS] taxonomy...
Updating [BGP CHLAMYDIA LOINC CODES] taxonomy...
Updating [BGP CHLAMYDIA TEST PROCEDURES] taxonomy...
Updating [BGP CMS 2/3 HEART BLOCK DXS] taxonomy...
Updating [BGP CMS ABD HYSTERECTOMY PROCS] taxonomy...
Updating [BGP CMS ABG CPTS] taxonomy...
Updating [BGP CMS ABG LOINC] taxonomy...
Updating [BGP CMS ACEI MEDS CLASS] taxonomy...
Updating [BGP CMS AMI DXS] taxonomy...
Updating [BGP CMS ANGIOEDEMA DXS] taxonomy...
Updating [BGP CMS ANTI-PLATELET CLASS] taxonomy...
Updating [BGP CMS ANTIBIOTICS MEDS CLASS] taxonomy...
Updating [BGP CMS AORTIC STENOSIS DXS] taxonomy...
Updating [BGP CMS ARB MEDS CLASS] taxonomy...
Updating [BGP CMS BETA BLOCKER CLASS] taxonomy...
Updating [BGP CMS BETA BLOCKER NDC] taxonomy...
Updating [BGP CMS BLOOD CULTURE PROC] taxonomy...
Updating [BGP CMS BONE MARROW CPT] taxonomy...
Updating [BGP CMS BONE MARROW PROC] taxonomy...
Updating [BGP CMS CABG PROCEDURES] taxonomy...
Updating [BGP CMS CARDIAC CATH/LV PROCS] taxonomy...
Updating [BGP CMS CHEST XRAY CPT] taxonomy...
Updating [BGP CMS CHEST XRAY PROC] taxonomy...
Updating [BGP CMS CHRONIC DIALYSIS CPTS] taxonomy...
Updating [BGP CMS CHRONIC DIALYSIS DXS] taxonomy...
Updating [BGP CMS CIRCULATORY SHOCK DXS] taxonomy...
```

Updating [BGP CMS COLON SURGERY PROCS] taxonomy...  
 Updating [BGP CMS CT SCAN CPT] taxonomy...  
 Updating [BGP CMS CT SCAN PROC] taxonomy...  
 Updating [BGP CMS CYSTIC FIBROSIS DXS] taxonomy...  
 Updating [BGP CMS ECHOCARDIOGRAM PROCS] taxonomy...  
 Updating [BGP CMS EJECTION FRACTION CPTS] taxonomy...  
 Updating [BGP CMS EJECTION FRACTION PROC] taxonomy...  
 Updating [BGP CMS HEART FAILURE DXS] taxonomy...  
 Updating [BGP CMS HIP ARTHROPLASTY PROCS] taxonomy...  
 Updating [BGP CMS HYPERKALEMIA DXS] taxonomy...  
 Updating [BGP CMS HYPOTENSION DXS] taxonomy...  
 Updating [BGP CMS INFECTIOUS DXS] taxonomy...  
 Updating [BGP CMS KNEE ARTHROPLASTY PROC] taxonomy...  
 Updating [BGP CMS LEUKEMIA DXS] taxonomy...  
 Updating [BGP CMS LVSD DXS] taxonomy...  
 Updating [BGP CMS LYMPHOMA DXS] taxonomy...  
 Updating [BGP CMS MAJOR SURGERY PROCS] taxonomy...  
 Updating [BGP CMS NUCLEAR MEDICINE PROCS] taxonomy...  
 Updating [BGP CMS OTHER CARDIAC PROCS] taxonomy...  
 Updating [BGP CMS OTHER INFECTION DXS] taxonomy...  
 Updating [BGP CMS PACEMAKER CPTS] taxonomy...  
 Updating [BGP CMS PACEMAKER DXS] taxonomy...  
 Updating [BGP CMS PACEMAKER PROCS] taxonomy...  
 Updating [BGP CMS PNEUMONIA DXS] taxonomy...  
 Updating [BGP CMS POST-OPERATIVE INF DXS] taxonomy...  
 Updating [BGP CMS RADIATION THER DXS] taxonomy...  
 Updating [BGP CMS RENAL ART STEN DXS] taxonomy...  
 Updating [BGP CMS RENAL DISEASE DXS] taxonomy...  
 Updating [BGP CMS SEPTI/RESP FAIL DXS] taxonomy...  
 Updating [BGP CMS VAG HYSTERECTOMY PROCS] taxonomy...  
 Updating [BGP CMS VASCULAR SURGERY PROCS] taxonomy...  
 Updating [BGP CMS WOUND CARE DXS] taxonomy...  
 Updating [BGP COLO CPTS] taxonomy...  
 Updating [BGP COLORECTAL CANCER CPTS] taxonomy...  
 Updating [BGP COLORECTAL CANCER DXS] taxonomy...  
 Updating [BGP COPD DXS] taxonomy...  
 Updating [BGP COPD DXS BB CONT] taxonomy...  
 Updating [BGP CPT ABORTION] taxonomy...  
 Updating [BGP CPT FLU] taxonomy...  
 Updating [BGP CPT HIV TESTS] taxonomy...  
 Updating [BGP CPT MAMMOGRAM] taxonomy...  
 Updating [BGP CPT MAMMOGRAM HEDIS] taxonomy...  
 Updating [BGP CPT MISCARRIAGE] taxonomy...  
 Updating [BGP CPT PAP] taxonomy...  
 Updating [BGP CREATINE KINASE LOINC] taxonomy...  
 Updating [BGP CREATININE CPTS] taxonomy...  
 Updating [BGP CREATININE LOINC CODES] taxonomy...  
 Updating [BGP CRS LVAD/HEART TRANS PROC] taxonomy...  
 Updating [BGP DEPRESSIVE DISORDERS] taxonomy...  
 Updating [BGP DIPHTHERIA EVIDENCE] taxonomy...  
 Updating [BGP DM EYE EXAM CPTS] taxonomy...  
 Updating [BGP DM RETINAL EXAM CPTS] taxonomy...  
 Updating [BGP DV DXS] taxonomy...  
 Updating [BGP EMPHYSEMA DXS] taxonomy...  
 Updating [BGP ESRD CPTS] taxonomy...  
 Updating [BGP ESRD DXS] taxonomy...

```

Updating [BGP ESRD PROCS] taxonomy...
Updating [BGP ESTIMATED GFR LOINC] taxonomy...
Updating [BGP FALL RELATED E-CODES] taxonomy...
Updating [BGP FOBT CPTS] taxonomy...
Updating [BGP FOBT LOINC CODES] taxonomy...
Updating [BGP FRACTURE CPTS] taxonomy...
Updating [BGP FRACTURE DXS] taxonomy...
Updating [BGP FRACTURE PROCEDURES] taxonomy...
Updating [BGP GLUCOSE CPTS] taxonomy...
Updating [BGP GLUCOSE LOINC] taxonomy...
Updating [BGP GPRA PREGNANCY DIAGNOSES] taxonomy...
Updating [BGP GPRA SMOKING DXS] taxonomy...
Updating [BGP GROUP A STREP CPT] taxonomy...
Updating [BGP GROUP A STREP LOINC] taxonomy...
Updating [BGP HDL LOINC CODES] taxonomy...
Updating [BGP HEART FAILURE DXS] taxonomy...
Updating [BGP HEDIS ACEI NDC] taxonomy...
Updating [BGP HEDIS AMPHETAMINE NDC] taxonomy...
Updating [BGP HEDIS ANALGESIC NDC] taxonomy...
Updating [BGP HEDIS ANTIANXIETY NDC] taxonomy...
Updating [BGP HEDIS ARB NDC] taxonomy...
Updating [BGP HEDIS ASTHMA INHALED NDC] taxonomy...
Updating [BGP HEDIS ASTHMA LEUK NDC] taxonomy...
Updating [BGP HEDIS ASTHMA NDC] taxonomy...
Updating [BGP HEDIS BARBITURATE NDC] taxonomy...
Updating [BGP HEDIS BELLADONNA ALKA NDC] taxonomy...
Updating [BGP HEDIS BENZODIAZEPINE NDC] taxonomy...
Updating [BGP HEDIS GASTRO ANTISPASM NDC] taxonomy...
Updating [BGP HEDIS NARCOTIC NDC] taxonomy...
Updating [BGP HEDIS NEPHROPTHY SCR LOINC] taxonomy...
Updating [BGP HEDIS ORAL ESTROGEN NDC] taxonomy...
Updating [BGP HEDIS ORAL HYPOGLYCEMIC ND] taxonomy...
Updating [BGP HEDIS OSTEOPOROSIS NDC] taxonomy...
Updating [BGP HEDIS OTHER NDC AVOID ELD] taxonomy...
Updating [BGP HEDIS PAP SMEAR DXS] taxonomy...
Updating [BGP HEDIS PRIMARY ASTHMA NDC] taxonomy...
Updating [BGP HEDIS RETINAL SCREENING] taxonomy...
Updating [BGP HEDIS RETINAL SCRN PROCS] taxonomy...
Updating [BGP HEDIS SKL MUSCLE RELAX NDC] taxonomy...
Updating [BGP HEDIS STATIN NDC] taxonomy...
Updating [BGP HEP EVIDENCE] taxonomy...
Updating [BGP HEPATITIS CPTS] taxonomy...
Updating [BGP HGBA1C LOINC CODES] taxonomy...
Updating [BGP HIB EVIDENCE] taxonomy...
Updating [BGP HIV TEST LOINC CODES] taxonomy...
Updating [BGP HIV/AIDS DXS] taxonomy...
Updating [BGP HYPERTENSION DXS] taxonomy...
Updating [BGP HYPOTENSION DXS] taxonomy...
Updating [BGP HYSTERECTOMY CPTS] taxonomy...
Updating [BGP HYSTERECTOMY DXS] taxonomy...
Updating [BGP HYSTERECTOMY PROCEDURES] taxonomy...
Updating [BGP IHD DXS] taxonomy...
Updating [BGP INJURY DIAGNOSES] taxonomy...
Updating [BGP IVD DXS] taxonomy...
Updating [BGP LBBB ON ECG CPT] taxonomy...
Updating [BGP LBBB ON ECG PROC] taxonomy...

```

Updating [BGP LDL CPTS] taxonomy...  
 Updating [BGP LDL LOINC CODES] taxonomy...  
 Updating [BGP LIPID PROFILE LOINC CODES] taxonomy...  
 Updating [BGP LIVER FUNCTION LOINC] taxonomy...  
 Updating [BGP LVAD/HEART TRANSPLANT PROC] taxonomy...  
 Updating [BGP MAJOR DEPRESSION (ADM)] taxonomy...  
 Updating [BGP MAJOR DEPRESSION PRIOR] taxonomy...  
 Updating [BGP MAJOR DEPRESSIVE DISORDERS] taxonomy...  
 Updating [BGP MASTECTOMY PROCEDURES] taxonomy...  
 Updating [BGP MEASLES EVIDENCE] taxonomy...  
 Updating [BGP MH OPT VISIT CPT NMH 1] taxonomy...  
 Updating [BGP MH OPT VISIT CPT NMH 3] taxonomy...  
 Updating [BGP MICROALBUM LOINC CODES] taxonomy...  
 Updating [BGP MISCARRIAGE/ABORTION DXS] taxonomy...  
 Updating [BGP MMR CONTRAINDICATIONS] taxonomy...  
 Updating [BGP MOOD DISORDERS] taxonomy...  
 Updating [BGP MUMPS EVIDENCE] taxonomy...  
 Updating [BGP MYOPATHY/MYALGIA] taxonomy...  
 Updating [BGP NEPHROPATHY CPTS] taxonomy...  
 Updating [BGP NEPHROPATHY DXS] taxonomy...  
 Updating [BGP NEPHROPATHY PROCEDURES] taxonomy...  
 Updating [BGP OPT MH VISIT CPTS MH] taxonomy...  
 Updating [BGP OPT MH VISIT POVS] taxonomy...  
 Updating [BGP OPV CONTRAINDICATIONS] taxonomy...  
 Updating [BGP OPV EVID DISEASE] taxonomy...  
 Updating [BGP OSTEO SCREEN CPTS] taxonomy...  
 Updating [BGP OSTEOARTHRITIS DXS] taxonomy...  
 Updating [BGP OSTEOPOROSIS DXS] taxonomy...  
 Updating [BGP PAP LOINC CODES] taxonomy...  
 Updating [BGP PAP SMEAR DXS] taxonomy...  
 Updating [BGP PERTUSSIS EVIDENCE] taxonomy...  
 Updating [BGP PHARYNGITIS DXS] taxonomy...  
 Updating [BGP POISONINGS SUBSTANCE ABUSE] taxonomy...  
 Updating [BGP POTASSIUM LOINC] taxonomy...  
 Updating [BGP PTCA CPTS] taxonomy...  
 Updating [BGP PTCA PROCS] taxonomy...  
 Updating [BGP RA AZATHIOPRINE NDC] taxonomy...  
 Updating [BGP RA CYCLOSPORINE NDC] taxonomy...  
 Updating [BGP RA GLUCOCORTICOIDS CLASS] taxonomy...  
 Updating [BGP RA IM GOLD NDC] taxonomy...  
 Updating [BGP RA LEFLUNOMIDE NDC] taxonomy...  
 Updating [BGP RA METHOTREXATE NDC] taxonomy...  
 Updating [BGP RA MYCOPHENOLATE NDC] taxonomy...  
 Updating [BGP RA PENICILLAMINE NDC] taxonomy...  
 Updating [BGP RA SULFASALAZINE NDC] taxonomy...  
 Updating [BGP RHEUMATOID ARTHRITIS DXS] taxonomy...  
 Updating [BGP RUBELLA EVIDENCE] taxonomy...  
 Updating [BGP SIG CPTS] taxonomy...  
 Updating [BGP ST ELEVATION DX] taxonomy...  
 Updating [BGP SUBSTANCE ABUSE] taxonomy...  
 Updating [BGP THROMBOLYTIC AGENT CLASS] taxonomy...  
 Updating [BGP TOTAL CHOLECTOMY CPTS] taxonomy...  
 Updating [BGP TOTAL CHOLECTOMY PROCS] taxonomy...  
 Updating [BGP TOTAL CHOLESTEROL LOINC] taxonomy...  
 Updating [BGP TRIGLYCERIDE LOINC CODES] taxonomy...  
 Updating [BGP UNI MASTECTOMY PROCEDURES] taxonomy...

```
Updating [BGP URI DXS] taxonomy...
Updating [BGP URINE PROTEIN LOINC CODES] taxonomy...
Updating [BGP VARICELLA CONTRA] taxonomy...
Updating [BGP VARICELLA EVIDENCE] taxonomy...
Updating [BGP VIRAL LOAD LOINC CODES] taxonomy...
Updating [DM AUDIT FASTING GLUC LOINC] taxonomy...
Updating [BGP CMS SMOKING CESSATION NDC] taxonomy...
Updating [BGP CMS ALLERGY DX FOR POV] taxonomy...
Updating [BGP ABORTION PROCEDURES] taxonomy...
Updating [BGP CMS ALLERGY POV DXS] taxonomy...
Updating [BGP CMS ALLERGY POV DXS] taxonomy...
Updating [BGP ESRD PMS DXS] taxonomy...
Updating [BGP HEDIS VASODILATOR NDC] taxonomy...
Updating [BGP QUANT URINE PROT LOINC] taxonomy...
Updating [BGP QUANT URINE PROT LOINC] taxonomy...
Updating [BGP ESTIMATED GFR LOINC] taxonomy...
Creating Prescribing provider taxonomy...
Creating Primary Care Clinics taxonomy...
Creating Mental Health provider taxonomy...
Creating BGP CMS WARFARIN MEDS Taxonomy...
Creating BGP CMS ACEI MEDS Taxonomy...
Creating BGP CMS BETA BLOCKER MEDS Taxonomy...
Creating BGP CMS ANTIBIOTIC MEDS Taxonomy...
Creating BGP CMS ARB MEDS Taxonomy...
Creating DM AUDIT ASPIRIN DRUGS Taxonomy...
Creating BGP ANTI-PLATELET DRUGS Taxonomy...
Creating BGP HEDIS OSTEOPOROSIS DRUGS Taxonomy...
Creating BGP ASTHMA CONTROLLERS Taxonomy...
Creating BGP ASTHMA INHALED STEROIDS Taxonomy...
Creating BGP ASTHMA LEUKOTRIENE Taxonomy...
Creating BGP HEDIS ANTIDEPRESSANT MEDS Taxonomy...
Creating BGP RA OA NSAID MEDS Taxonomy...
Creating BGP RA GLUCOCORTICOIDS MEDS Taxonomy...
Creating BGP HEDIS ANTIBIOTICS MEDS Taxonomy...
Creating BGP HEDIS ASTHMA LEUK MEDS Taxonomy...
Creating BGP HEDIS ASTHMA MEDS Taxonomy...
Creating BGP HEDIS PRIMARY ASTHMA MEDS Taxonomy...
Creating BGP HEDIS ASTHMA INHALED MEDS Taxonomy...
Creating BGP HEDIS BETA BLOCKER MEDS Taxonomy...
Creating BGP RA IM GOLD MEDS Taxonomy...
Creating BGP RA AZATHIOPRINE MEDS Taxonomy...
Creating BGP RA LEFLUNOMIDE MEDS Taxonomy...
Creating BGP RA ORAL GOLD MEDS Taxonomy...
Creating BGP RA CYCLOSPORINE MEDS Taxonomy...
Creating BGP RA METHOTREXATE MEDS Taxonomy...
Creating BGP RA MYCOPHENOLATE MEDS Taxonomy...
Creating BGP RA PENICILLAMINE MEDS Taxonomy...
Creating BGP RA SULFASALAZINE MEDS Taxonomy...
Creating BGP CMS THROMBOLYTIC MEDS Taxonomy...
Creating BGP HEDIS ANTIANXIETY MEDS Taxonomy...
Creating BGP HEDIS ANTIEMETIC MEDS Taxonomy...
Creating BGP HEDIS ANALGESIC MEDS Taxonomy...
Creating BGP HEDIS ANTIHISTAMINE MEDS Taxonomy...
Creating BGP HEDIS ANTIPSYCHOTIC MEDS Taxonomy...
Creating BGP HEDIS AMPHETAMINE MEDS Taxonomy...
Creating BGP HEDIS BARBITURATE MEDS Taxonomy...
```

```
Creating BGP HEDIS BENZODIAZEPINE MEDS Taxonomy...
Creating BGP HEDIS OTHER BENZODIAZEPINE Taxonomy...
Creating BGP HEDIS CALCIUM CHANNEL MEDS Taxonomy...
Creating BGP HEDIS GASTRO ANTISPASM MED Taxonomy...
Creating BGP HEDIS BELLADONNA ALKA MEDS Taxonomy...
Creating BGP HEDIS SKL MUSCLE RELAX MED Taxonomy...
Creating BGP HEDIS ORAL ESTROGEN MEDS Taxonomy...
Creating BGP HEDIS ORAL HYPOGLYCEMIC RX Taxonomy...
Creating BGP HEDIS VASODILATOR MEDS Taxonomy...
Creating BGP HEDIS OTHER MEDS AVOID ELD Taxonomy...
Creating BGP HEDIS NARCOTIC MEDS Taxonomy...
Creating BGP HEDIS ACEI MEDS Taxonomy...
Creating BGP HEDIS ARB MEDS Taxonomy...
Creating BGP HEDIS STATIN MEDS Taxonomy...
Creating BGP CMS SMOKING CESSATION MEDS Taxonomy...
Creating BGP CMS SYSTEMIC CHEMO MEDS Taxonomy...
Creating BGP CMS IMMUNOSUPPRESSIVE MEDS Taxonomy...

Updating Routine file...

Updating KIDS files...

IHS CLINICAL REPORTING 8.0 Installed.
      Feb 08, 2008@10:54:12

Not a VA primary domain

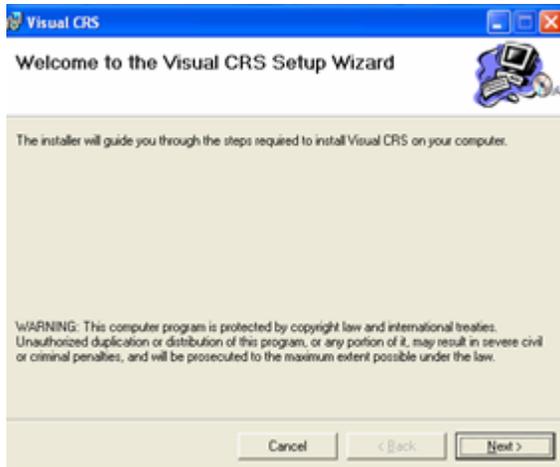
Install Completed

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
```

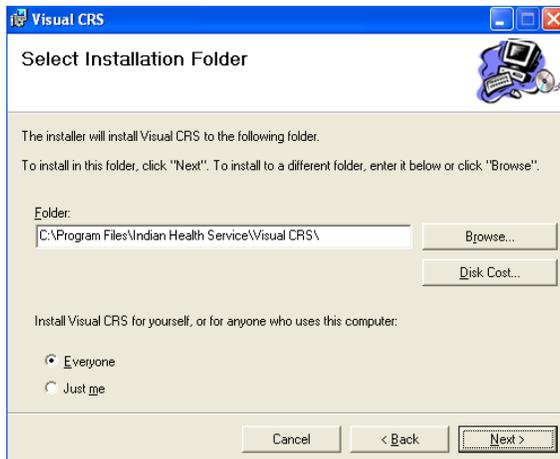
Figure 4-1: Sample Installation Screenshot

## 4.1 Sample Installation of the CRS GUI

After double clicking on the file bgp\_0800setup.exe, the following screen appears:



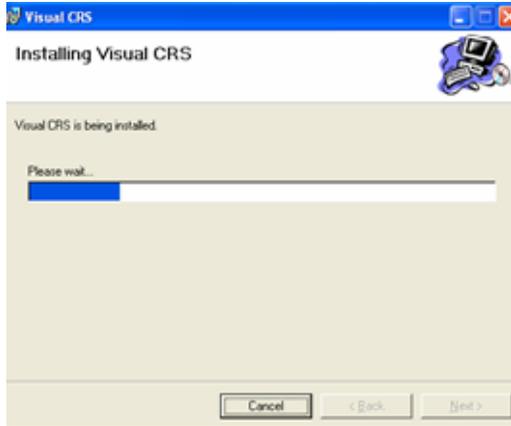
Click Next > to begin the installation.



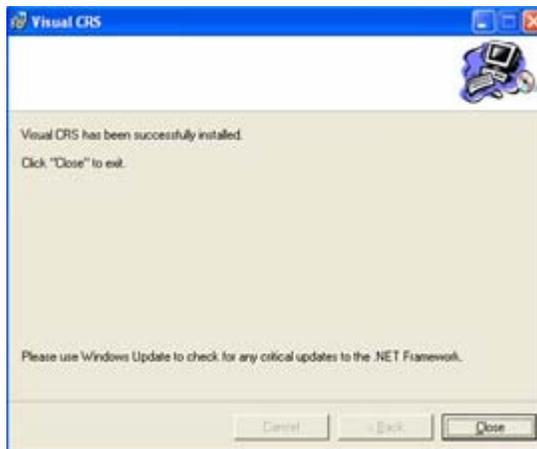
Click Next > to accept the default settings and to display the following message.



Click Next > and the following screen appears:



When the following message appears, click Close to exit.



## 5.0 Contact Information

If you have any questions or comments regarding this distribution, please contact **OIT User Support (IHS)** by:

**Phone:** (505) 248-4371 or  
(888) 830-7280

**Fax:** (505) 248-4297

**Web:** <http://www.ihs.gov/GeneralWeb/HelpCenter/Helpdesk/index.cfm>

**Email:** support@ihs.gov