



RESOURCE AND PATIENT MANAGEMENT SYSTEM

Clinical Reporting System

(BGP)

Installation Guide and Release Notes

Version 14.0
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Office of Information Technology
Division of Information Resource Management
Albuquerque, New Mexico

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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 instructions on using the CRS. Version 14.0 adds fiscal year (FY) 2013 clinical performance measures to existing FY 2002 through FY 2013 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 they want 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 in order to initiate business process or other changes
- Quickly measure impact of process changes on performance measures
- Identify IHS Area Offices meeting or exceeding measures to provide lessons learned

Users of the RPMS CRS 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 Introduction

This manual provides user instructions on installing Version 14.0 of the Clinical Reporting System (CRS). The manual provides installation instructions for both the Resource and Patient Management System (RPMS) server side software and the Visual CRS graphical user interface (GUI).

1.1 Key Changes in Version 14.0

1.1.1 Logic Changes to National GPRA/GPRAMA Report Measures

- GPRA Developmental Measures:
 - Updated the following measures to add ICD-10 codes: Access to Dental Service; Childhood Immunizations; Cancer Screening: Mammogram Rates; Colorectal Cancer Screening (Revised Logic #2-USPSTF); Comprehensive Cancer Screening; Alcohol Screening; Intimate Partner (Domestic) Violence Screening; Depression Screening; Weight Assessment and Counseling for Nutrition and Physical Activity; HIV Screening; Sexually Transmitted Infection (STI) Screening; Visit Statistics
 - Added the following new GPRA Developmental measures: Access to Dental Service (visits with general anesthesia and stainless steel crowns); Hepatitis C Screening (moved from ONM Report); Chlamydia Testing (moved from ONM Report); Visit Statistics
 - Deleted the following GPRA Developmental measures: Adult Immunizations; Cancer Screening: Pap Smear Rates
 - Updated codes in the following measures: Childhood Immunizations; Comprehensive Cancer Screening; HIV Screening
- Diabetes Prevalence: Added ICD-10 POV codes E10.* through E13.* to diabetes definition.
- Diabetes: Glycemic Control: Added ICD-10 POV codes E10.* through E13.* to diabetes definition.
- Diabetes: Blood Pressure Control: Added ICD-10 POV codes E10.* through E13.* to diabetes definition.

- Diabetes: Nephropathy Assessment: (1) Added ICD-10 POV codes E10.* through E13.* to diabetes definition. (2) Added ICD-10 POV codes N18.6, Z48.22, Z49.*, Z91.15, Z94.0, Z99.2 to ESRD definition. (3) Changed numerator and logic to look for Urine Albumin-to-Creatinine Ratio (UACR) instead of Quantitative Urine Protein Assessment. NOTE: Site populated LOINC taxonomies should be edited to reflect this change as well. (4) Removed CPT codes 82042, 84156, 3060F, 3061F, and 3062F from UACR definition. (5) Changed logic for UACR to CPT 82043 WITH 82570.
- Diabetic Retinopathy: (1) Added ICD-10 POV codes E10.* through E13.* to diabetes definition. (2) Added ICD-10 POV codes H54.0 through H54.12 to bilateral blindness definition. (3) Clarified that problem list entries for bilateral blindness must not have a status of Inactive or Deleted.
- Access to Dental Service: Added ICD-10 POV codes Z01.20 and Z01.21 to dental exam definition.
- Influenza: (1) Added CVX codes 149, 150, 151, 153, 155, and 158 to Influenza definition. (2) Added CPT codes 90672, 90673, 90685, 90686 and 90688 to Influenza definition.
- Adult Immunizations: (1) Moved measure from GPRA Developmental report into GPRA report and made it the new GPRA measure. (2) Added CVX code 152 to pneumovax definition.
- Childhood Immunizations: (1) Added ICD-10 POV codes B16.*, B19.1*, Z22.51 to Hep B evidence of disease definition. (2) Added ICD-10 POV codes B05.* to measles evidence of disease definition. (3) Added ICD-10 POV codes B26.* to mumps evidence of disease definition. (4) Added ICD-10 POV codes M89.6* to IPV evidence of disease definition. (5) Added ICD-10 POV codes B06.* to rubella evidence of disease definition. (6) Added ICD-10 POV codes B01.* through B02.* to varicella evidence of disease definition. (7) Added CVX code 152 to pneumococcal definition. (8) Added CVX codes 138 and 139 to Td definition.
- Cancer Screening: Pap Smear Rates: (1) Moved measures from GPRA Developmental report into GPRA report and made it the new GPRA measure. (2) Changed age range from 25 through 64 to 24 through 64. (3) Changed numerator from Pap Smear in past four years to Pap Smear in past three years. (4) Changed numerator from Pap + HPV in past six years to Pap + HPV in past five years. (5) Added ICD-10 procedure codes 0UT90ZZ, 0UT94ZZ, 0UT97ZZ, 0UT98ZZ, 0UT9FZZ to hysterectomy definition. (6) Added ICD-10 POV codes N99.3, Z12.72, Z90.710 through Z90.712, Q51.5 to hysterectomy definition. (7) Added ICD-10 POV codes R87.61*, R87.810, R87.820, Z01.42 to Pap Smear definition. (8) Clarified that problem list entries for hysterectomy must not have a status of Inactive or Deleted.

- Cancer Screening: Mammogram Rates: (1) Added ICD-10 procedure codes BH00ZZZ, BH01ZZZ, BH02ZZZ to mammogram definition. (2) Added ICD-10 POV codes R92.0, R92.1, R92.8, Z12.31 to mammogram definition. (3) Added ICD-10 procedure code 0HTV0ZZ to bilateral mastectomy definition. (4) Added ICD-10 procedure codes 07T50ZZ, 07T60ZZ, 07T70ZZ, 07T80ZZ, 07T90ZZ, 0HTT0ZZ, 0HTU0ZZ, 0KTH0ZZ, 0KTJ0ZZ to unilateral mastectomy definition.
- Colorectal Cancer Screening: (1) Added ICD-10 procedure codes 0D5E4ZZ, 0D5E8ZZ, 0D5F4ZZ, 0D5F8ZZ, 0D5G4ZZ, 0D5G8ZZ, 0D5H4ZZ, 0D5H8ZZ, 0D5K4ZZ, 0D5K8ZZ, 0D5L4ZZ, 0D5L8ZZ, 0D5M4ZZ, 0D5M8ZZ, 0D5N4ZZ, 0D5N8ZZ, 0D9E3ZX, 0D9E4ZX, 0D9E7ZX, 0D9E8ZX, 0D9F3ZX, 0D9F4ZX, 0D9F7ZX, 0D9F8ZX, 0D9G3ZX, 0D9G4ZX, 0D9G7ZX, 0D9G8ZX, 0D9H3ZX, 0D9H4ZX, 0D9H7ZX, 0D9H8ZX, 0D9K3ZX, 0D9K4ZX, 0D9K7ZX, 0D9K8ZX, 0D9L3ZX, 0D9L4ZX, 0D9L7ZX, 0D9L8ZX, 0D9M3ZX, 0D9M4ZX, 0D9M7ZX, 0D9M8ZX, 0D9N3ZX, 0D9N4ZX, 0D9N7ZX, 0D9N8ZX, 0DBE3ZX, 0DBE4ZX, 0DBE7ZX, 0DBE8ZX, 0DBE8ZZ, 0DBF3ZX, 0DBF4ZX, 0DBF7ZX, 0DBF8ZX, 0DBF8ZZ, 0DBG3ZX, 0DBG4ZX, 0DBG7ZX, 0DBG8ZX, 0DBG8ZZ, 0DBH3ZX, 0DBH4ZX, 0DBH7ZX, 0DBH8ZX, 0DBH8ZZ, 0DBK3ZX, 0DBK4ZX, 0DBK7ZX, 0DBK8ZX, 0DBK8ZZ, 0DBL3ZX, 0DBL4ZX, 0DBL7ZX, 0DBL8ZX, 0DBL8ZZ, 0DBM3ZX, 0DBM4ZX, 0DBM7ZX, 0DBM8ZX, 0DBM8ZZ, 0DBN3ZX, 0DBN4ZX, 0DBN7ZX, 0DBN8ZX, 0DBN8ZZ, 0DJD8ZZ to colonoscopy definition. (2) Added ICD-10 procedure code 0DJD8ZZ to sigmoidoscopy definition. (3) Added ICD-10 procedure codes 0DTE4ZZ, 0DTE0ZZ, 0DTE7ZZ, 0DTE8ZZ to total colectomy definition. (4) Added ICD-10 POV codes C18.*, C19, C20, C78.5, Z85.030, Z85.038 to colorectal cancer definition.
- Tobacco Use and Exposure Assessment: (1) Added ICD-10 POV codes F17.2*, O99.33*, Z87.891 to tobacco screening definition. (2) Added ICD-10 POV codes F17.200, F17.203 through F17.210, F17.213 through F17.290, F17.293 through F17.299, O99.33* to tobacco user (smoker) definition. (3) Added ICD-10 POV codes F17.220, F17.223 through F17.229 to tobacco user (smokeless) definition. (4) Added ICD-10 POV codes F17.2*0, F17.2*3, F17.2*8, F17.2*9, O99.33* to tobacco user definition. (5) Added health factors Heavy Tobacco Smoker and Light Tobacco Smoker to Tobacco User and Smoker definitions. (6) Clarified that problem list entries for tobacco-related diagnoses must not have a status of Inactive or Deleted.
- Tobacco Cessation: (1) Added ICD-10 POV codes F17.2*0, F17.2*3, F17.2*8, F17.2*9, O99.33* to tobacco user (smoker) definition. (2) Added ICD-10 POV codes F17.2*1, Z87.891 to tobacco use in remission definition. (3) Added health factors Heavy Tobacco Smoker and Light Tobacco Smoker to Tobacco User Health Factors (TUHF) definition. (4) Clarified that problem list entries for tobacco-related diagnoses must not have a status of Inactive or Deleted.

- Alcohol Screening (FAS Prevention): Added ICD-10 POV codes F10.1*, F10.20, F10.220 through F10.29, F10.920 through F10.982, F10.99, G62.1 to alcohol-related diagnosis definition.
- Intimate Partner (Domestic) Violence Screening: (1) Added ICD-10 POV codes T74.11XA, T74.21XA, T74.31XA, T74.91XA, T76.11XA, T76.21XA, T76.31XA, T76.91XA, Z91.410 to DV screening definition. (2) Added ICD-10 POV code Z69.11 to IPV counseling definition. (3) Added breakdown measures to report.
- Depression Screening: Added ICD-10 POV codes F06.31 through F06.34, F1*.4, F10.159, F10.180, F10.181, F10.188, F10.259, F10.280, F10.281, F10.288, F10.959, F10.980, F10.981, F10.988, F30.*, F31.0 through F31.71, F31.73, F31.75, F31.77, F31.81 through F31.9, F32.* through F39 to mood disorder definition.

- Controlling High Blood Pressure – Million Hearts: (1) Made measure an official GPRA measure. (2) Added ICD-10 procedure codes 0WHR73Z, 0WHR7YZ, 10A00ZZ, 10A03ZZ, 10A04ZZ, 10A07Z6, 10A07ZW, 10A07ZX, 10A07ZZ, 10A08ZZ, 3E1K78Z, 3E1K88Z to abortion definition. (3) Added ICD-10 POV codes O00.*, O01.*, O03.1, O03.31 through O03.33, O03.6, O03.81 through O03.83, O04.6, O04.81 through O04.83, Z33.2 to abortion definition. (4) Added ICD-10 POV code O03.9 to miscarriage definition. (5) Added ICD-10 POV codes O09.00 through O10.02, O10.111 through O10.12, O10.211 through O10.22, O10.311 through O10.32, O10.411 through O10.42, O10.911 through O10.92, O11.1 through O15.1, O15.9 through O24.02, O24.111 through O24.12, O24.311 through O24.32, O24.41*, O24.811 through O24.82, O24.911 through O24.92, O25.10 through O25.2, O26.00 through O26.62, O26.711 through O26.72, O26.811 through O26.93, O29.011 through O30.93, O31.* through O48.*, O60.0*, O61.* through O66.*, O68, O69.*, O71.00 through O71.1, O71.89, O71.9, O74.0 through O75.81, O75.89, O75.9, O76 through O77.*, O88.011 through O88.02, O88.111 through O88.12, O88.211 through O88.22, O88.311 through O88.32, O88.811 through O88.82, O90.3, O91.011 through O91.019, O91.111 through O91.119, O91.211 through O91.219, O92.011 through O92.019, O92.20, O92.29, O98.011 through O98.02, O98.111 through O98.12, O98.211 through O98.22, O98.311 through O98.32, O98.411 through O98.42, O98.511 through O98.52, O98.611 through O98.62, O98.711 through O98.72, O98.811 through O98.82, O98.911 through O98.92, O99.011 through O99.02, O99.111 through O99.12, O99.210 through O99.214, O99.280 through O99.284, O99.310 through O99.314, O99.320 through O99.324, O99.330 through O99.334, O99.340 through O99.344, O99.350 through O99.354, O99.411 through O99.42, O99.511 through O99.52, O99.611 through O99.62, O99.711 through O99.72, O99.810, O99.814, O99.820, O99.824, O99.830, O99.834, O99.840 through O99.844, O99.89, O9A.111 through O9A.12, O9A.211 through O9A.22, O9A.311 through O9A.32, O9A.411 through O9A.42, O9A.511 through O9A.52, Z03.7*, Z32.01, Z33.1, Z34.*, Z36 to pregnancy definition. (6) Added ICD-10 POV codes N18.6, Z48.22, Z49.*, Z91.15, Z94.0, Z99.2 to ESRD definition. (7) Added ICD-10 POV code I10 to hypertension definition. (8) Clarified that problem list entries for hypertension must not have a status of Inactive or Deleted.

- Comprehensive CVD-Related Assessment: (1) Added ICD-10 procedure codes 0210093, 0210098, 0210099, 021009C, 021009F, 021009W, 02100A3, 02100A8, 02100A9, 02100AC, 02100AF, 02100AW, 02100J3, 02100J8, 02100J9, 02100JC, 02100JF, 02100JW, 02100K3, 02100K8, 02100K9, 02100KC, 02100KF, 02100KW, 02100Z3, 02100Z8, 02100Z9, 02100ZC, 02100ZF, 0210493, 0210498, 0210499, 021049C, 021049F, 021049W, 02104A3, 02104A8, 02104A9, 02104AC, 02104AF, 02104AW, 02104J3, 02104J8, 02104J9, 02104JC, 02104JF, 02104JW, 02104K3, 02104K8, 02104K9, 02104KC, 02104KF, 02104KW, 02104Z3, 02104Z8, 02104Z9, 02104ZC, 02104ZF, 0211093, 0211098, 0211099, 021109C, 021109F, 021109W, 02110A3, 02110A8, 02110A9, 02110AC, 02110AF, 02110AW, 02110J3, 02110J8, 02110J9, 02110JC, 02110JF, 02110JW, 02110K3, 02110K8, 02110K9, 02110KC, 02110KF, 02110KW, 02110Z3, 02110Z8, 02110Z9, 02110ZC, 02110ZF, 0211493, 0211498, 0211499, 021149C, 021149F, 021149W, 02114A3, 02114A8, 02114A9, 02114AC, 02114AF, 02114AW, 02114J3, 02114J8, 02114J9, 02114JC, 02114JF, 02114JW, 02114K3, 02114K8, 02114K9, 02114KC, 02114KF, 02114KW, 02114Z3, 02114Z8, 02114Z9, 02114ZC, 02114ZF, 0212093, 0212098, 0212099, 021209C, 021209F, 021209W, 02120A3, 02120A8, 02120A9, 02120AC, 02120AF, 02120AW, 02120J3, 02120J8, 02120J9, 02120JC, 02120JF, 02120JW, 02120K3, 02120K8, 02120K9, 02120KC, 02120KF, 02120KW, 02120Z3, 02120Z8, 02120Z9, 02120ZC, 02120ZF, 0212493, 0212498, 0212499, 021249C, 021249F, 021249W, 02124A3, 02124A8, 02124A9, 02124AC, 02124AF, 02124AW, 02124J3, 02124J8, 02124J9, 02124JC, 02124JF, 02124JW, 02124K3, 02124K8, 02124K9, 02124KC, 02124KF, 02124KW, 02124Z3, 02124Z8, 02124Z9, 02124ZC, 02124ZF, 0213093, 0213098, 0213099, 021309C, 021309F, 021309W, 02130A3, 02130A8, 02130A9, 02130AC, 02130AF, 02130AW, 02130J3, 02130J8, 02130J9, 02130JC, 02130JF, 02130JW, 02130K3, 02130K8, 02130K9, 02130KC, 02130KF, 02130KW, 02130Z3, 02130Z8, 02130Z9, 02130ZC, 02130ZF, 0213493, 0213498, 0213499, 021349C, 021349F, 021349W, 02134A3, 02134A8, 02134A9, 02134AC, 02134AF, 02134AW, 02134J3, 02134J8, 02134J9, 02134JC, 02134JF, 02134JW, 02134K3, 02134K8, 02134K9, 02134KC, 02134KF, 02134KW, 02134Z3, 02134Z8, 02134Z9, 02134ZC, 02134ZF to CABG definition. (2) Added ICD-10 POV code Z95.1 to CABG definition. (3) Added ICD-10 procedure codes 0270346, 027034Z, 02703D6, 02703DZ, 02703T6, 02703TZ, 02703Z6, 02703ZZ, 0270446, 027044Z, 02704D6, 02704DZ, 02704T6, 02704TZ, 02704Z6, 02704ZZ, 0271346, 027134Z, 02713D6, 02713DZ, 02713T6, 02713TZ, 02713Z6, 02713ZZ, 0271446, 027144Z, 02714D6, 02714DZ, 02714T6, 02714TZ, 02714Z6, 02714ZZ, 0272346, 027234Z, 02723D6, 02723DZ, 02723T6, 02723TZ, 02723Z6, 02723ZZ, 0272446, 027244Z, 02724D6, 02724DZ, 02724T6, 02724TZ, 02724Z6, 02724ZZ, 0273346, 027334Z, 02733D6, 02733DZ, 02733T6, 02733TZ, 02733Z6, 02733ZZ, 0273446, 027344Z, 02734D6, 02734DZ, 02734T6, 02734TZ, 02734Z6, 02734ZZ to PCI definition. (4) Added ICD-10

POV codes Z95.5 and Z98.61 to PCI definition. (5) Added ICD-10 POV codes I20.0 through I22.8, I24.0 through I25.83, I25.89, I25.9 to CHD definition. (6) Added ICD-10 POV code Z71.3 to nutrition definition. (7) Added ICD-10 POV codes F17.2*, O99.33*, Z87.891 to tobacco screening definition. (8) Added ICD-10 POV codes F06.31 through F06.34, F1*.*4, F10.159, F10.180, F10.181, F10.188, F10.259, F10.280, F10.281, F10.288, F10.959, F10.980, F10.981, F10.988, F30.*, F31.0 through F31.71, F31.73, F31.75, F31.77, F31.81 through F31.9, F32.* through F39 to depression definition. (9) Added ICD-10 POV code R45.851 to suicide ideation definition. (10) Added ICD-10 POV codes E10.* through E13.* to diabetes definition. (11) Clarified that problem list entries for tobacco-related diagnoses must not have a status of Inactive or Deleted.

- HIV Screening: (1) Added ICD-10 procedure codes 0WHR73Z, 0WHR7YZ, 10A00ZZ, 10A03ZZ, 10A04ZZ, 10A07Z6, 10A07ZW, 10A07ZX, 10A07ZZ, 10A08ZZ, 3E1K78Z, 3E1K88Z to abortion definition. (2) Added ICD-10 POV codes O00.*, O01.*, O03.1, O03.31 through O03.33, O03.6, O03.81 through O03.83, O04.6, O04.81 through O04.83, Z33.2 to abortion definition. (3) Added ICD-10 POV code O03.9 to miscarriage definition. (4) Added ICD-10 POV codes O09.00 through O10.02, O10.111 through O10.12, O10.211 through O10.22, O10.311 through O10.32, O10.411 through O10.42, O10.911 through O10.92, O11.1 through O15.1, O15.9 through O24.02, O24.111 through O24.12, O24.311 through O24.32, O24.41*, O24.811 through O24.82, O24.911 through O24.92, O25.10 through O25.2, O26.00 through O26.62, O26.711 through O26.72, O26.811 through O26.93, O29.011 through O30.93, O31.* through O48.*, O60.0*, O61.* through O66.*, O68, O69.*, O71.00 through O71.1, O71.89, O71.9, O74.0 through O75.81, O75.89, O75.9, O76 through O77.*, O88.011 through O88.02, O88.111 through O88.12, O88.211 through O88.22, O88.311 through O88.32, O88.811 through O88.82, O90.3, O91.011 through O91.019, O91.111 through O91.119, O91.211 through O91.219, O92.011 through O92.019, O92.20, O92.29, O98.011 through O98.02, O98.111 through O98.12, O98.211 through O98.22, O98.311 through O98.32, O98.411 through O98.42, O98.511 through O98.52, O98.611 through O98.62, O98.711 through O98.72, O98.811 through O98.82, O98.911 through O98.92, O99.011 through O99.02, O99.111 through O99.12, O99.210 through O99.214, O99.280 through O99.284, O99.310 through O99.314, O99.320 through O99.324, O99.330 through O99.334, O99.340 through O99.344, O99.350 through O99.354, O99.411 through O99.42, O99.511 through O99.52, O99.611 through O99.62, O99.711 through O99.72, O99.810, O99.814, O99.820, O99.824, O99.830, O99.834, O99.840 through O99.844, O99.89, O9A.111 through O9A.12, O9A.211 through O9A.22, O9A.311 through O9A.32, O9A.411 through O9A.42, O9A.511 through O9A.52, Z03.7*, Z32.01, Z33.1, Z34.*, Z36 to pregnancy definition. (5) Added ICD-10 POV codes B20, B97.35, R75, Z21, O98.711 through O98.73 to HIV definition. (6) Clarified that problem list entries for HIV diagnoses must not have a status of Inactive or Deleted.

1.1.2 Key Logic Changes to Non-GPRA Measures

For key logic changes to non-GPRA measures, please refer to the CRS 2014 (version 14.0) Selected Measures Report Performance Measure List and Definitions document located on the CRS Web site at

http://www.ihs.gov/crs/documents/crsv14/SelectedMeasuresV14_0.pdf.

1.1.3 Additional Key Enhancements and Revisions

- Added the ability to run reports without the logic text printed in the report.
- Removed site parameters for CHS-Only and Urban Outreach & Referral-Only site options.

2.0 Installation Notes

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

Prefix: BGP

Current Version: 14.0

Note: This distribution of the CRS contains Version 14.0 of CRS and the GUI front end to the CRS system. The server-side (i.e. “roll-and-scroll” or backend) version 14.0 of the package can be installed alone or both the GUI and the server-side versions can be installed. Currently, there is no requirement to install the GUI.

Please install version 14.0 of CRS (bgp_1400.k) at all sites regardless of whether the site opts to install and use the GUI portion of the package. Version 14.0 of CRS and the GUI have different requirements so please take note of the requirements section for each piece of the software.

2.1 CRS Distribution Contents and Required Resources

2.1.1 Contents of Distribution

File	Description
bgp_1400.k	Kernel Installation and Distribution System (KIDS) file containing software
bgp_140i.pdf	Installation guide in PDF format (this manual)
bgp_140t.pdf	Technical Manual in PDF format
bgp_140u.pdf	User Manual in PDF format
bgp_140u_logicselected.pdf	CRS Clinical Performance Measure Logic Manual in PDF format
bgp_140u_visual.pdf	Visual CRS User Manual in PDF format
bgp_1400client.zip	Visual CRS software for Client's PC

2.1.2 Required Resources

IHS Clinical Reporting System version 13.0 through patch 1 (BGP*13.0*1) must be installed.

2.2 Visual CRS (GUI) Distribution Contents and Required Resources

2.2.1 Contents of GUI CRS Distribution

- bgp_1400client.zip

The following two files are contained in the zip file:

- bgp_1400setup.exe
- bgp_1400.msi

2.2.2 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 version 14.0
- *On the Client (User's) PC:*
 - Windows XP Service Pack 3 or higher
 - Microsoft Office 2003 or later
 - .NET Framework v4.0
 - If the CRS GUI is not going to 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.

2.3 Before You Begin

- Make a copy of this distribution for offline storage
- Print all notes/readme files
- 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 BGP4* namespace for use in returning to the prior existing version, if needed.

Note: If no problems are noted with the new installation, remove saved routines from your system 7–10 days after this install.

3. Install bgp_1400.k. This file 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_1400.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. For results, use the **KIDS Install File Print** option to view/print the IHS CLINICAL REPORTING SYSTEM V14.0 entry.

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

4. After the install completes, assign security keys, as appropriate, using the following table:

Name	Descriptive Name	Description
BGPZAREA	BGP Area Report	This key unlocks the Area Office report options on the main BGPMENU. Note: This key should be assigned <i>only</i> 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 be given <i>only</i> 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 <i>only</i> 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 Version 4.0 has been installed in RPMS on the RPMS Server.
2. Make sure CRS version 14.0 has been 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_1400client.zip` into a directory of your choice and unzip the file. There are two files included in the zip file: `bgp_1400.msi` and `bgp_1400setup.exe`.
2. If a previous version of the Visual CRS product is installed it will need to be removed. Go to the **Start** menu. Then go to **Control Panel** then click **Add/Remove Programs** and select and remove **Visual CRS**.
3. Double click the **bgp_1400setup.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.
4. Follow the prompts on the **Visual CRS Setup Screens** and accept all of the defaults.
5. Double click the **Visual CRS** shortcut that appears on the desktop.
6. If this is the first install you will need to add a new connection. Please refer to the BMX 4.0 User Manual for instructions.
7. When the **RPMS Login** window appears, enter your RPMS access and verify codes, and then click **OK**.
8. If data for multiple facilities is stored on the same RPMS database, the Select Division window is displayed. Select a Division, and then click **OK**.
9. You are now in the Visual CRS software.

4.0 Sample Installations

4.1 Sample Installation of CRS on RPMS Server

```

D ^XPKRN

Select KIDS OPTION: LOAD A DISTRIBUTION
Enter a Host File: Q:\bgp_1400.k

KIDS Distribution saved on Oct 10, 2013@10:32:36
Comment: IHS CRS V14.0

This Distribution contains Transport Globals for the following Package(s):
Build IHS CLINICAL REPORTING 14.0 has been loaded before, here is when:
  IHS CLINICAL REPORTING 14.0   Install Completed
                                was loaded on Oct 10, 2013@10:01:19
  IHS CLINICAL REPORTING 14.0   Install Completed
                                was loaded on Oct 10, 2013@10:17:40
  IHS CLINICAL REPORTING 14.0   Install Completed
                                was loaded on Oct 10, 2013@10:43:14

OK to continue with Load? NO// y  YES

Distribution OK!

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

Build IHS CLINICAL REPORTING 14.0 has an Environmental Check Routine
Want to RUN the Environment Check Routine? YES//
  IHS CLINICAL REPORTING 14.0
Will first run the Environment Check Routine, BGP4POS

          Patch "BGP*13.0*1" is installed.
Use INSTALL NAME: IHS CLINICAL REPORTING 14.0 to install this Distribution.

CDAA>D ^XPKRN

KIDS 8.0

Select KIDS OPTION: INSTALL PACKAGE(S)
Select INSTALL NAME:   IHS CLINICAL REPORTING 14.0      Loaded from Distribution
                      Loaded from Distribution 10/10/13@11:27:56
                      => IHS CRS V14.0 ;Created on Oct 10, 2013@10:32:36

This Distribution was loaded on Oct 10, 2013@11:27:56 with header of
  IHS CRS V14.0 ;Created on Oct 10, 2013@10:32:36
It consisted of the following Install(s):
IHS CLINICAL REPORTING 14.0
Checking Install for Package IHS CLINICAL REPORTING 14.0
Will first run the Environment Check Routine, BGP4POS

          Patch "BGP*13.0*1" is installed.

Install Questions for IHS CLINICAL REPORTING 14.0

```

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.

90552.01 BGP 14 MEASURES (including data)

Note: You already have the 'BGP 14 MEASURES' File.
I will REPLACE your data with mine.

90552.02 BGP 14 INDIVIDUAL MEASURES (including data)

Note: You already have the 'BGP 14 INDIVIDUAL MEASURES' File.
I will REPLACE your data with mine.

90552.03 BGP 14 DATA CURRENT

Note: You already have the 'BGP 14 DATA CURRENT' File.

90552.04 BGP 14 DATA PREVIOUS

Note: You already have the 'BGP 14 DATA PREVIOUS' File.

90552.05 BGP 14 DATA BASELINE

Note: You already have the 'BGP 14 DATA BASELINE' File.

90552.06 BGP 14 NATIONAL PATIENT LISTS (including data)

Note: You already have the 'BGP 14 NATIONAL PATIENT LISTS' File.
I will REPLACE your data with mine.

90552.08 BGP 14 TAXONOMIES (including data)

Note: You already have the 'BGP 14 TAXONOMIES' File.
I will REPLACE your data with mine.

90552.09 BGP 14 TAXONOMY TEMP (including data)
Note: You already have the 'BGP 14 TAXONOMY TEMP' File.
I will REPLACE your data with mine.

90552.1 BGP 14 MEASURE GROUPS (including data)
Note: You already have the 'BGP 14 MEASURE GROUPS' File.
I will OVERWRITE your data with mine.

90552.12 BGP 14 PATIENT ED DATA CURRENT
Note: You already have the 'BGP 14 PATIENT ED DATA CURRENT' File.

90552.13 BGP 14 PATIENT ED DATA PREVIOUS
Note: You already have the 'BGP 14 PATIENT ED DATA PREVIOUS' File.

90552.14 BGP 14 PATIENT ED DATA BASELINE
Note: You already have the 'BGP 14 PATIENT ED DATA BASELINE' File.

90552.15 BGP 14 PAT ED MEASURES (including data)
Note: You already have the 'BGP 14 PAT ED MEASURES' File.
I will OVERWRITE your data with mine.

90552.17 BGP 14 ICARE GROUPS (including data)
Note: You already have the 'BGP 14 ICARE GROUPS' File.
I will OVERWRITE your data with mine.

90552.18 BGP 14 ICARE CATEGORIES (including data)
Note: You already have the 'BGP 14 ICARE CATEGORIES' File.
I will OVERWRITE your data with mine.

90552.19 BGP 14 GUI REPORT OUTPUT
Note: You already have the 'BGP 14 GUI REPORT OUTPUT' File.

90553.02 BGP 14 ELDER INDIVIDUAL MEASURES (including data)
Note: You already have the 'BGP 14 ELDER INDIVIDUAL MEASURES' File.
I will OVERWRITE your data with mine.

90553.03 BGP 14 ELDER DATA CURRENT
Note: You already have the 'BGP 14 ELDER DATA CURRENT' File.

90553.04 BGP 14 ELDER DATA PREVIOUS
Note: You already have the 'BGP 14 ELDER DATA PREVIOUS' File.

90553.05 BGP 14 ELDER DATA BASELINE
Note: You already have the 'BGP 14 ELDER DATA BASELINE' File.


```

Running Post-Install Routine: POST^BGP4POS
Updating [BGP ADV EFF ANTIHYPERTEN ARB] taxonomy...
Updating [BGP FLU IZ CVX CODES] taxonomy...
Updating [BGP CPT FLU] taxonomy...
Updating [BGP PNEUMO IZ CVX CODES] taxonomy...
Updating [BGP CPT DENT GEN ANESTHESIA] taxonomy...
Updating [BGP CPT DENT GEN ANESTHESIA] taxonomy...
Updating [BGP CPT DENTAL SSC] taxonomy...
Updating [BGP PQA DPP IV NDC] taxonomy...
Updating [BGP PQA DIABETES ALL CLASS NDC] taxonomy...
Updating [BGP BILAT FOOT AMP PROCEDURES] taxonomy...
Updating [BGP GPRA SMOKELESS DXS] taxonomy...
Updating [BGP ADV EFF SALICYLATES 10] taxonomy...
Updating [BGP ADV EFF ANTIHYPER 10] taxonomy...
Updating [BGP PQA BETA BLOCKER NDC] taxonomy...
Updating [BGP PQA RASA NDC] taxonomy...
Updating [BGP PQA CCB NDC] taxonomy...
Updating [BGP PQA BIGUANIDE NDC] taxonomy...
Updating [BGP PQA SULFONYLUREA NDC] taxonomy...
Updating [BGP PQA DPP IV NDC] taxonomy...
Updating [BGP PQA STATIN NDC] taxonomy...
Updating [BGP PQA ANTIRETROVIRAL NDC] taxonomy...
Updating [BGP PQA SABA NDC] taxonomy...
Updating [BGP PQA CONTROLLER NDC] taxonomy...
Updating [BGP CBC LOINC] taxonomy...
Updating [BGP CD4 LOINC CODES] taxonomy...
Updating [BGP CHLAMYDIA LOINC CODES] taxonomy...
Updating [BGP ESTIMATED GFR LOINC] taxonomy...
Updating [BGP GLUCOSE LOINC] taxonomy...
Updating [BGP HEP C TEST LOINC CODES] taxonomy...
Updating [BGP HIV TEST LOINC CODES] taxonomy...
Updating [BGP HIV-1 TEST LOINC CODES] taxonomy...
Updating [BGP HPV LOINC CODES] taxonomy...
Updating [BGP LIVER FUNCTION LOINC] taxonomy...
Updating [BGP PAP LOINC CODES] taxonomy...
Updating [BGP POTASSIUM LOINC] taxonomy...
Updating [BGP QUANT URINE PROT LOINC] taxonomy...
Updating [BGP TOTAL CHOLESTEROL LOINC] taxonomy...
Updating [BGP TRIGLYCERIDE LOINC CODES] taxonomy...
Updating [BGP URINE PROTEIN LOINC CODES] taxonomy...
Updating [BGP VIRAL LOAD LOINC CODES] taxonomy...
Updating [DM AUDIT FASTING GLUC LOINC] taxonomy...
Updating [BGP QUANT UACR LOINC] taxonomy...
Updating [BGP ASTHMA INHALED STEROID VAP] taxonomy...
Updating [BGP PQA THIAZOLIDINEDIONE NDC] taxonomy...
Updating [BGP RA OA NSAID VAPI] taxonomy...
Updating [BGP RA GLUCOCORTICOIDS VAPI] taxonomy...
Updating [BGP RA ORAL GOLD VAPI] taxonomy...
Updating [BGP RA AZATHIOPRINE VAPI] taxonomy...
Updating [BGP RA LEFLUNOMIDE VAPI] taxonomy...
Updating [BGP RA METHOTREXATE VAPI] taxonomy...
Updating [BGP RA CYCLOSPORINE VAPI] taxonomy...
Updating [BGP RA MYCOPHENOLATE VAPI] taxonomy...
Updating [BGP RA PENICILLAMINE VAPI] taxonomy...
Updating [BGP RA SULFASALAZINE VAPI] taxonomy...
Updating [BGP CMS SMOKING CESSATION VAPI] taxonomy...
Updating [BGP CMS WARFARIN VAPI] taxonomy...
Updating [BKM FTA-ABS LOINC CODES] taxonomy...

```

```
Updating [BKM GONORRHEA LOINC CODES] taxonomy...
Updating [BKM RPR LOINC CODES] 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 ANTICHOLINERGIC MEDS Taxonomy...
Creating BGP HEDIS ANTITHROMBOTIC MEDS Taxonomy...
Creating BGP HEDIS ANTI-INFECTIVE MEDS Taxonomy...
Creating BGP HEDIS CARDIOVASCULAR MEDS Taxonomy...
Creating BGP HEDIS CENTRAL NERVOUS MEDS Taxonomy...
Creating BGP HEDIS NONBENZODIAZ MEDS Taxonomy...
Creating BGP HEDIS ENDOCRINE MEDS Taxonomy...
Creating BGP HEDIS GASTROINTESTINAL MED Taxonomy...
Creating BGP HEDIS PAIN MEDS Taxonomy...
Creating BGP HEDIS SKL MUSCLE RELAX MED Taxonomy...
Creating BGP HEDIS ACEI MEDS Taxonomy...
Creating BGP HEDIS ARB MEDS Taxonomy...
Creating BGP HEDIS STATIN MEDS Taxonomy...
Creating BGP CMS WARFARIN MEDS Taxonomy...
Creating BGP PQA BETA BLOCKER MEDS Taxonomy...
Creating BGP PQA RASA MEDS Taxonomy...
Creating BGP PQA CCB MEDS Taxonomy...
Creating BGP PQA BIGUANIDE MEDS Taxonomy...
Creating BGP PQA SULFONYLUREA MEDS Taxonomy...
Creating BGP PQA THIAZOLIDINEDIONE MEDS Taxonomy...
Creating BGP PQA STATIN MEDS Taxonomy...
Creating BGP PQA ANTIRETROVIRAL MEDS Taxonomy...
Creating BGP PQA SABA MEDS Taxonomy...
Creating BGP PQA CONTROLLER MEDS Taxonomy...
Creating BGP ASTHMA LABA MEDS Taxonomy...
Creating BGP PQA DPP IV MEDS Taxonomy...
Creating BGP PQA DIABETES ALL CLASS Taxonomy...
```

```
Creating BGP CMS SMOKING CESSATION MEDS Taxonomy...
Creating BGP CMS SYSTEMIC CHEMO MEDS Taxonomy...
Creating BGP CMS IMMUNOSUPPRESSIVE MEDS Taxonomy...
Creating/Updating DENTAL ANESTHESIA ADA Codes Taxonomy...
Creating/Updating SSC ADA Codes Taxonomy...

Updating Routine file...

Updating KIDS files...

IHS CLINICAL REPORTING 14.0 Installed.
      Oct 10, 2013@11:29:04

Not a VA primary domain

Install Completed
```

Figure 4-1: Sample installation for IHS Clinical Reporting package 14.0

4.2 Sample Installation of the CRS GUI

1. Double click **bgp_1400setup.exe** to launch the Visual CRS Setup Wizard (Figure 4-2):



Figure 4-2: Visual CRS Setup Wizard, Welcome dialog

2. Click **Next** to display the Select Installation Folder dialog (Figure 4-3):

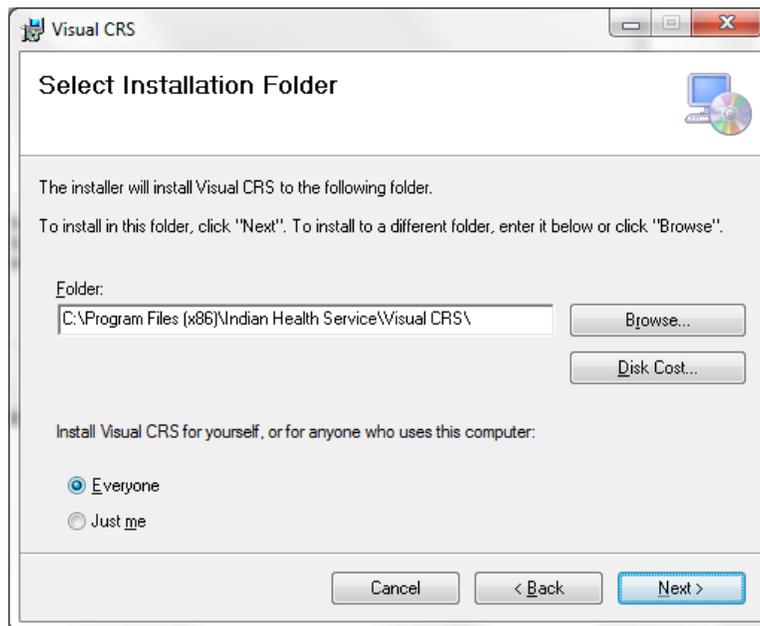


Figure 4-3: Visual CRS Setup Wizard, Select Installation Folder dialog

3. Click **Next** to display the Confirm Installation dialog (Figure 4-4):

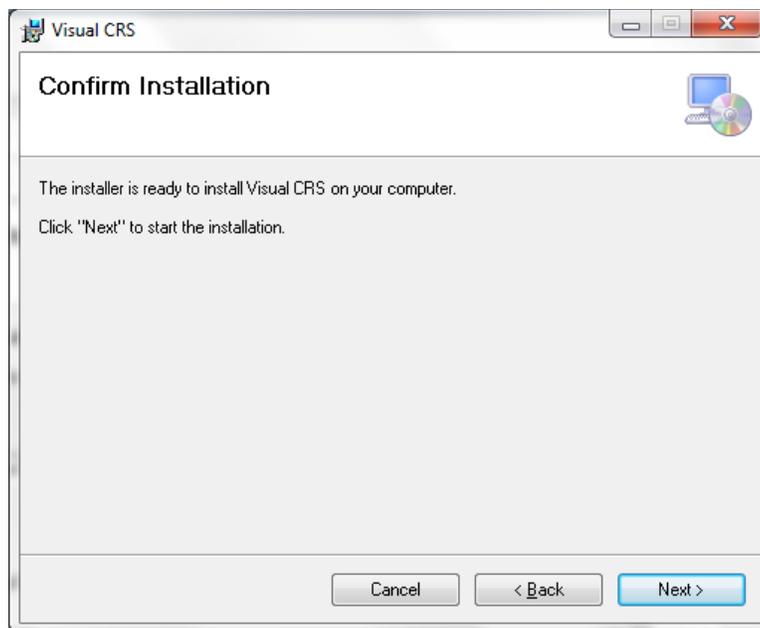


Figure 4-4: Visual CRS Setup Wizard, Confirm Installation dialog

- Click **Next** to display the Installing Visual CRS dialog (Figure 4-5):

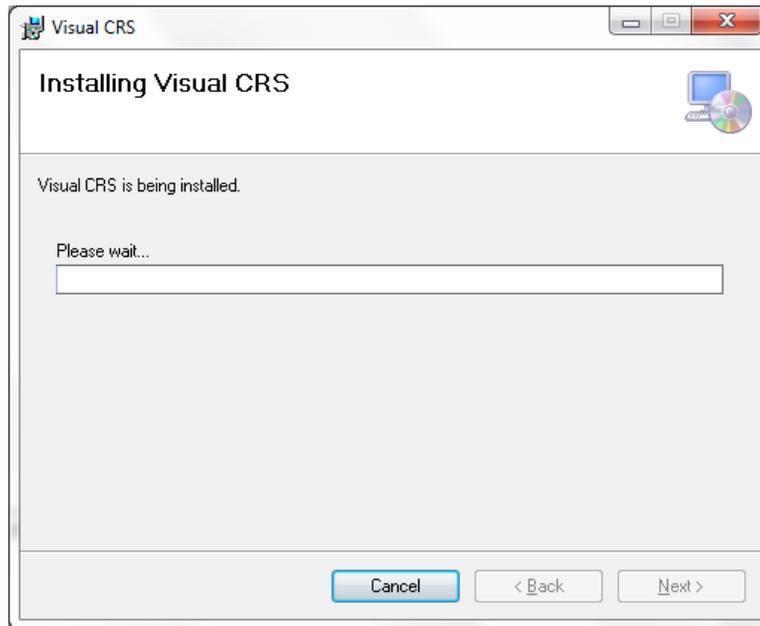


Figure 4-5: Visual CRS Setup Wizard, Installing Visual CRS dialog

- Wait while the application is installed. When the installation is complete, the Installation Complete dialog (Figure 4-6) displays:

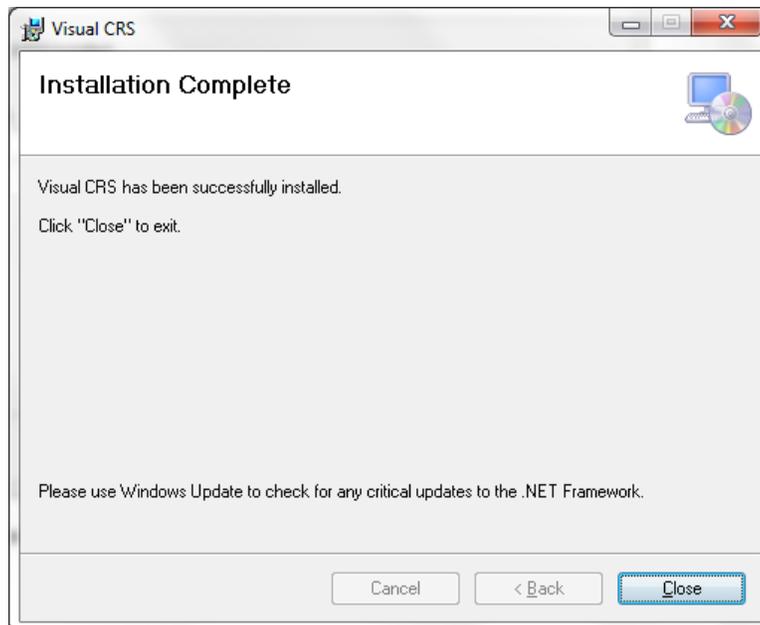


Figure 4-6: Visual CRS Setup Wizard, Installation Complete dialog

- Click **Close**.

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

Acronym List

CRS	Clinical Reporting System
GPRA	Government Performance and Results Act
GUI	Graphical User Interface
IHS	Indian Health Service
RPMS	Resource and Patient Management System

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