



RESOURCE AND PATIENT MANAGEMENT SYSTEM

# **Computerized Public Health Activity Data System (CPHAD) (BNI)**

## **Technical Manual**

Version 1.0  
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Office of Information Technology (OIT)  
Division of Information Resources  
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## **PREFACE**

This manual contains the technical information for Version 1.0 of the IHS Computerized Public Health Activity Data System (CPHAD).

## TABLE OF CONTENTS

|             |                                                  |           |
|-------------|--------------------------------------------------|-----------|
| <b>1.0</b>  | <b>Implementation and Maintenance.....</b>       | <b>1</b>  |
| 1.1         | Contents of Distribution.....                    | 1         |
| 1.2         | Requirements .....                               | 1         |
| 1.3         | Contents of Distribution for GUI Interface ..... | 1         |
| <b>2.0</b>  | <b>Security Keys.....</b>                        | <b>2</b>  |
| <b>3.0</b>  | <b>Routines .....</b>                            | <b>3</b>  |
| <b>4.0</b>  | <b>Files and Tables .....</b>                    | <b>4</b>  |
| 4.1         | File List .....                                  | 4         |
| 4.2         | File Access .....                                | 4         |
| 4.3         | Cross References .....                           | 5         |
| 4.4         | Table File .....                                 | 15        |
| <b>5.0</b>  | <b>Archiving and Purging.....</b>                | <b>22</b> |
| <b>6.0</b>  | <b>External Relations .....</b>                  | <b>23</b> |
| 6.1         | External Calls.....                              | 23        |
| 6.2         | Callable Routines.....                           | 23        |
| 6.3         | Exported Options .....                           | 26        |
| <b>7.0</b>  | <b>Internal Relations .....</b>                  | <b>27</b> |
| <b>8.0</b>  | <b>How to Generate Online Documentation.....</b> | <b>28</b> |
| 8.1         | %INDEX.....                                      | 28        |
| 8.2         | Inquire Option .....                             | 29        |
| 8.3         | Print Option File .....                          | 29        |
| 8.4         | List File Attributes .....                       | 29        |
| <b>9.0</b>  | <b>SAC Exemptions .....</b>                      | <b>31</b> |
| <b>10.0</b> | <b>Glossary.....</b>                             | <b>32</b> |
| <b>11.0</b> | <b>Contact Information .....</b>                 | <b>34</b> |

## 1.0 Implementation and Maintenance

The IHS Computerized Public Health Activity Data System occupies the BNI namespace. Options, security locks/keys, templates, routines, and globals are namespaced BNI.

### 1.1 Contents of Distribution

- bni\_0100.k—Kids file containing software
- bni\_010i.pdf—Installation Guide and Release Notes in PDF format
- bni\_010t.pdf—Technical Manual in PDF format (this manual)
- bni\_010u.pdf—User Manual in PDF format
- bni10client.zip

### 1.2 Requirements

- Kernel (XU) v8.0 or higher
- FileMan (DI) v21 or higher

### 1.3 Contents of Distribution for GUI Interface

- bni10client.zip – GUI software for the client PC
  - o bni10setup.exe
  - o IndianHealthService.bni10.msi

## 2.0 Security Keys

| Name     | Descriptive Name      | Description                                                                                                                                               |
|----------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| BNIZMENU | BNI MAIN MENU – CPHAD | This key unlocks the main CPHAD menu. It should be assigned to all users who need to enter data using the Computerized Public Health Activity Data System |

Figure 2-1: Security Keys table

### 3.0 Routines

| ROUTINE  | DESCRIPTION                                                     |
|----------|-----------------------------------------------------------------|
| BNIBAN   | IHS/CMI/LAB - Banner routine for BNI package                    |
| BNIE     | IHS/CMI/LAB - Data entry for BNI                                |
| BNIG     | IHS/CMI/LAB - Group entry for BNI                               |
| BNIGE    | IHS/CMI/LAB - BNI GUI Save Utilities 2/3/2006 8:53:46 AM        |
| BNIGT    | IHS/CMI/LAB - BNI CPHAD GUI Table Utilities 1/4/2006 1:24:55 PM |
| BNIGU    | IHS/CMI/LAB - BNI Visual CPHAD Utilities 1/4/2006 1:26:59 PM    |
| BNIGVL   | IHS/CMI/LAB - BNI general retrieval                             |
| BNIGVL0  | IHS/CMI/LAB - SCREEN LOGIC                                      |
| BNIGVL1  | IHS/CMI/LAB - Process record list                               |
| BNIGVL3  | IHS/CMI/LAB - General retrieval cont                            |
| BNIGVL4  | IHS/CMI/LAB - General retrieval select                          |
| BNIGVLD  | IHS/CMI/LAB - Delete bni custom report                          |
| BNIGVLP  | IHS/CMI/LAB - Print bni general retrieval                       |
| BNIGVLP1 | IHS/CMI/LAB - CONT OF BNIGVLP                                   |
| BNIGVLP2 | IHS/CMI/LAB - Print BNI report                                  |
| BNIGVLP3 | IHS/CMI/LAB - CONT OF BNIGVLP                                   |
| BNIGVLP8 | IHS/CMI/LAB - Print delimited                                   |
| BNIGVLS  | IHS/CMI/LAB - Gen ret show screens                              |
| BNIGVLS1 | IHS/CMI/LAB - Dir question mark                                 |
| BNIGVLU  | IHS/CMI/LAB - GEN RETR UTILITIES                                |
| BNIGVLU1 | IHS/CMI/LAB - GEN RETR UTILITIES                                |
| BNIPST   | IHS/CMI/LAB - Routine to create bulletin                        |
| BNIRD    | IHS/CMI/LAB - BNI record display                                |
| BNIRDSG  | IHS/CMI/LAB - Record display                                    |
| BNIRP1   | IHS/CMI/LAB - Person report                                     |
| BNIRP2   | IHS/CMI/LAB - PHC report                                        |
| BNIRP3   | IHS/CMI/LAB - SHT report                                        |
| BNIRP4   | IHS/CMI/LAB - TOA report                                        |
| BNIRP5   | IHS/CMI/LAB - AS report                                         |
| BNIRP6   | IHS/CMI/LAB - GPRA report                                       |
| BNIRP7   | IHS/CMI/LAB - Date report                                       |
| BNITAS   | IHS/CMI/LAB - Table activity setting                            |
| BNITAXE  | IHS/CMI/LAB - Taxonomy update community                         |
| BNITAXT  | IHS/CMI/LAB - DISPLAY TAX                                       |
| BNITGHC  | IHS/CMI/LAB - PHC table                                         |
| BNITGS   | IHS/CMI/LAB - Group served table                                |
| BNITSHT  | IHS/CMI/LAB - SHT table                                         |
| BNITTOA  | IHS/CMI/LAB - TOA table                                         |
| BNIU     | IHS/CMI/LAB - BNI util                                          |

Figure 3-1: Table of routines and descriptions

## 4.0 Files and Tables

### 4.1 File List

| File     | Global    | Filename                           |
|----------|-----------|------------------------------------|
| 90510    | ^BNIREC   | BNI CPHAD ACTIVITY RECORDS         |
| 90510.5  | ^BNIGROUP | BNI GROUP RECORD DEFINITION        |
| 90511.01 | ^BNIGHC   | BNI GENERAL PUBLIC HEALTH CONCERNS |
| 90511.02 | ^BNISHT   | BNI SPECIFIC HEALTH TOPIC          |
| 90511.03 | ^BNITOA   | BNI TYPE OF ACTIVITY               |
| 90511.04 | ^BNIGS    | BNI CPHAD GROUP SERVED             |
| 90511.05 | ^BNIAS    | BNI CPHAD ACTIVITY SETTING         |
| 90511.99 | ^BNIADO   | BNI BMX ADO SCHEMA                 |
| 90512.01 | ^BNISITE  | BNI CPHAD SITE PARAMETERS          |
| 90512.08 | ^BNIGUI   | BNI GUI REPORT                     |
| 90512.87 | ^BNIGRI   | BNI GENERAL RETRIEVAL ITEMS        |
| 90512.88 | ^BNIRTMP  | BNI GENERAL RETRIEVAL TMP          |

Figure 4-1: File list table including file, global, and filename

### 4.2 File Access

| FILE (#) | GLOBAL     | RD | WR | LYG | DD | DEL |
|----------|------------|----|----|-----|----|-----|
| 90510    | ^BNIREC(   | M  | M  | M   | M  | @   |
| 90510.5  | ^BNIGROUP( | @  | @  | @   | @  | @   |
| 90511.01 | ^BNIGHC(   | @  | @  | @   | @  | @   |
| 90511.02 | ^BNISHT(   | @  | @  | @   | @  | @   |
| 90511.03 | ^BNITOA(   | @  | @  | @   | @  | @   |
| 90511.04 | ^BNIGS(    | @  | @  | @   | @  | @   |
| 90511.05 | ^BNIAS(    | @  | @  | @   | @  | @   |
| 90511.99 | ^BNIADO(   | @  | @  | @   | @  | @   |
| 90512.01 | ^BNISITE(  | @  | @  | @   | @  | @   |
| 90512.08 | ^BNIGUI(   | @  | @  | @   | @  | @   |
| 90512.87 | ^BNIGRI(   | @  | @  | @   | @  | @   |
| 90512.88 | ^BNIRTMP(  | @  | @  | @   | @  | @   |

Figure 4-2: File access table

## 4.3 Cross References

### File # 90510 BNI CPHAD Activity Records

Traditional Cross-References:

#### AA MUMPS

Field: DATE OF ACTIVITY (90510,.01)

1)= I \$P(^BNIREC(DA,0),U,8) S ^BNIREC("AA",\$P(^BNIREC(DA,0),U,8),(9999999-X),DA)=""

2)= I \$P(^BNIREC(DA,0),U,8) K ^BNIREC("AA",\$P(^BNIREC(DA,0),U,8),(9999999-X),DA)

#### AATOO MUMPS

Field: PERSON PERFORMING ACTIVITY (90510,.08)

1)= I \$P(^BNIREC(DA,0),U) S ^BNIREC("AA",X,(9999999-\$P(^BNIREC(DA,0),U)),DA)=""

2)= I \$P(^BNIREC(DA,0),U) K ^BNIREC("AA",X,(9999999-\$P(^BNIREC(DA,0),U)),DA)

#### AC REGULAR

Field: PERSON PERFORMING ACTIVITY (90510,.08)

1)= S ^BNIREC("AC",\$E(X,1,30),DA)=""

2)= K ^BNIREC("AC",\$E(X,1,30),DA)

#### ACP MUMPS

Field: CREATED BY (90510,.03)

1)= S ^BNIREC("ACP",X,\$P(^BNIREC(DA,0),U),DA)=""

2)= K ^BNIREC("ACP",X,\$P(^BNIREC(DA,0),U),DA)

#### ACP MUMPS

Field: PERSON PERFORMING ACTIVITY (90510,.08)

1)= S ^BNIREC("ACP",X,\$P(^BNIREC(DA,0),U),DA)=""

2)= K ^BNIREC("ACP",X,\$P(^BNIREC(DA,0),U),DA)

#### AE MUMPS

Field: DATE OF ACTIVITY (90510,.01)

1)= S ^BNIREC("AE",(9999999-X),DA)=""

2)= K ^BNIREC("AE",(9999999-X),DA)

#### B REGULAR

Field: DATE OF ACTIVITY (90510,.01)

1)= S ^BNIREC("B",\$E(X,1,30),DA)=""

2)= K ^BNIREC("B",\$E(X,1,30),DA)

Subfile #90510.0115



## Traditional Cross-References:

## B REGULAR

Field: LOG OF EDITING (90510.0115,.01)

1)= S ^BNIREC(DA(1),15,"B",\$E(X,1,30),DA)=""

2)= K ^BNIREC(DA(1),15,"B",\$E(X,1,30),DA)

## TRIGGER

Field: LOG OF EDITING (90510.0115,.01)

Triggered Field: DATE LAST EDITED (90510,.05)

1)= K DIV S DIV=X,D0=DA(1),DIV(0)=D0,D1=DA S Y(1)=\$S(\$D(^BNIREC(D0,0)):^(0),1:"") S X=\$P(Y(1),U,5),X=X S DIU=X K Y S X  
 =DIV S X=DIV,X=\$P(X,".",1) S DIH=\$G(^BNIREC(DIV(0),0)),DIV=  
 X S \$P(^0,U,5)=DIV,DIH=90510,DIG=.05 D ^DICR

2)= K DIV S DIV=X,D0=DA(1),DIV(0)=D0,D1=DA S Y(1)=\$S(\$D(^BNIREC(D0,0)):^(0),1:"") S X=\$P(Y(1),U,5),X=X S DIU=X K Y X ^  
 DD(90510.0115,.01,1,2,2.1) S DIH=\$G(^BNIREC(DIV(0),0)),DIV=  
 X S \$P(^0,U,5)=DIV,DIH=90510,DIG=.05 D ^DICR

2.1)= S X=DIV S Y(1)=\$S(\$D(^BNIREC(D0,15,D1,0)):^(0),1:"")

S X=\$P(Y(1),U,1),X=\$P(X,".",1)

CREATE VALUE)= DATE(LOG OF EDITING)

DELETE VALUE)= DATE(LOG OF EDITING)

FIELD)= #.05

## TRIGGER

Field: USER WHO EDITED (90510.0115,.02)

Triggered Field: LAST EDITED BY (90510,.04)

1)= K DIV S DIV=X,D0=DA(1),DIV(0)=D0,D1=DA S Y(1)=\$S(\$D(^BNIREC(D0,0)):^(0),1:"") S X=\$P(Y(1),U,4),X=X S DIU=X K Y S X  
 =DIV S X=DUZ S DIH=\$G(^BNIREC(DIV(0),0)),DIV=X S \$P(^0,U,  
 4)=DIV,DIH=90510,DIG=.04 D ^DICR

1.4)= S DIH=\$G(^BNIREC(DIV(0),0)),DIV=X S \$P(^0,U,4)=DIV,  
 DIH=90510,DIG=.04 D ^DICR

2)= Q

2.1)= S X=DIV S Y(1)=\$S(\$D(^BNIREC(D0,15,D1,0)):^(0),1:"")

S X=\$P(\$G(^VA(200,+P(Y(1),U,2),0)),U)

CREATE VALUE)= S X=DUZ

DELETE VALUE)= NO EFFECT

FIELD)= #.04

**File #90510.5 BNI Group Record Definition**

## Traditional Cross-References:

**AA MUMPS**

Field: DATE OF ACTIVITY (90510.5,.01)

1)= I \$P(^BNIGROUP(DA,0),U,8) S ^BNIGROUP("AA",\$P(^BNIGROUP(DA,0),U,8),(9999999-X),DA)=""

2)= I \$P(^BNIGROUP(DA,0),U,8) K ^BNIGROUP("AA",\$P(^BNIGROUP(DA,0),U,8),(9999999-X),DA)

**AATOO MUMPS**

Field: PERSON PERFORMING ACTIVITY (90510.5,.08)

1)= I \$P(^BNIGROUP(DA,0),U) S ^BNIGROUP("AA",X,(9999999-\$P(^BNIGROUP(DA,0),U)),DA)=""

2)= I \$P(^BNIGROUP(DA,0),U) K ^BNIGROUP("AA",X,(9999999-\$P(^BNIGROUP(DA,0),U)),DA)

**AC REGULAR**

Field: PERSON PERFORMING ACTIVITY (90510.5,.08)

1)= S ^BNIGROUP("AC",\$E(X,1,30),DA)=""

2)= K ^BNIGROUP("AC",\$E(X,1,30),DA)

**B REGULAR**

Field: DATE OF ACTIVITY (90510.5,.01)

1)= S ^BNIGROUP("B",\$E(X,1,30),DA)=""

2)= K ^BNIGROUP("B",\$E(X,1,30),DA)

## Subfile #90510.5115

## Traditional Cross-References:

**B REGULAR**

Field: LOG OF EDITING (90510.5115,.01)

1)= S ^BNIGROUP(DA(1),15,"B",\$E(X,1,30),DA)=""

2)= K ^BNIGROUP(DA(1),15,"B",\$E(X,1,30),DA)

**TRIGGER**

Field: USER WHO EDITED (90510.5115,.02)

Triggered Field: LAST EDITED BY (90510.5,.04)

1)= K DIV S DIV=X,D0=DA(1),DIV(0)=D0,D1=DA S Y(1)=\$S(\$D(^BNIGROUP(D0,0)):^(0),1:"") S X=\$P(Y(1),U,4),X=X S DIU=X K Y S

X=DIV S X=\$P(\$G(^VA(200,+DIV,0)),U) X ^DD(90510.5115,.02,1,1,1.4)

1.4)= S DIH=\$G(^BNIGROUP(DIV(0),0)),DIV=X S \$P(^0,U,4)=DIV,DIH=90510.5,DIG=.04 D ^DICR

2)= K DIV S DIV=X,D0=DA(1),DIV(0)=D0,D1=DA S Y(1)=\$S(\$D(^BNIGROUP(D0,0)):^(0,1:")) S X=\$P(Y(1),U,4),X=X S DIU=X K Y X  
 ^DD(90510.5115,.02,1,1,2.1) S DIH=\$G(^BNIGROUP(DIV(0),0)),  
 DIV=X S \$P(^0,U,4)=DIV,DIH=90510.5,DIG=.04 D ^DICR  
 2.1)= S X=DIV S Y(1)=\$S(\$D(^BNIGROUP(D0,15,D1,0)):^(0,1:"))  
 ) S X=\$P(\$G(^VA(200,\$P(Y(1),U,2),0)),U)  
 CREATE VALUE)= USER WHO EDITED  
 DELETE VALUE)= USER WHO EDITED  
 FIELD)=#.04

Subfile #90510.516

Traditional Cross-References:

#### B REGULAR

Field: PERSONS PERFORMING ACTIVITY (90510.516,.01)

1)= S ^BNIGROUP(DA(1),16,"B",\$E(X,1,30),DA)=""

2)= K ^BNIGROUP(DA(1),16,"B",\$E(X,1,30),DA)

### File #90511.01 BNI General Public Health Concern

Traditional Cross-References:

#### B REGULAR

Field: GENERAL PUBLIC HEALTH CONCERN (90511.01,.01)

1)= S ^BNIGHC("B",X,DA)=""

2)= K ^BNIGHC("B",X,DA)

#### C REGULAR

Field: CODE (90511.01,.02)

1)= S ^BNIGHC("C",\$E(X,1,30),DA)=""

2)= K ^BNIGHC("C",\$E(X,1,30),DA)

### File #90511.02 BNI Specific Health Topic

Traditional Cross-References:

#### AA MUMPS

Field: GENERAL TOPIC (90511.02,.06)

1)= I \$P(^BNISHT(DA,0),U,3) S ^BNISHT("AA",\$P(^BNISHT(DA,0),U,3),X,DA)=""

2)= I \$P(^BNISHT(DA,0),U,3) K ^BNISHT("AA",\$P(^BNISHT(DA,0),U,3),X,DA)

**AATOO MUMPS**

Field: GENERAL PUBLIC HEALTH CONCERN (90511.02,.03)

1)= I \$P(^BNISHT(DA,0),U,6) S ^BNISHT("AA",X,\$P(^BNISHT(DA,0),U,6),DA)=""

2)= I \$P(^BNISHT(DA,0),U,6) K ^BNISHT("AA",X,\$P(^BNISHT(DA,0),U,6),DA)

**AC REGULAR**

Field: GENERAL PUBLIC HEALTH CONCERN (90511.02,.03)

1)= S ^BNISHT("AC",\$E(X,1,30),DA)=""

2)= K ^BNISHT("AC",\$E(X,1,30),DA)

**B REGULAR**

Field: SPECIFIC HEALTH TOPIC (90511.02,.01)

1)= S ^BNISHT("B",\$E(X,1,30),DA)=""

2)= K ^BNISHT("B",\$E(X,1,30),DA)

**C REGULAR**

Field: CODE (90511.02,.02)

1)= S ^BNISHT("C",\$E(X,1,30),DA)=""

2)= K ^BNISHT("C",\$E(X,1,30),DA)

**File #90511.03 BNI Type of Activity**

Traditional Cross-References:

**B REGULAR**

Field: TYPE OF ACTIVITY (90511.03,.01)

1)= S ^BNITOA("B",\$E(X,1,30),DA)=""

2)= K ^BNITOA("B",\$E(X,1,30),DA)

**C REGULAR**

Field: CODE (90511.03,.02)

1)= S ^BNITOA("C",\$E(X,1,30),DA)=""

2)= K ^BNITOA("C",\$E(X,1,30),DA)

**File #90511.04 BNI CPHAD Group Served**

Traditional Cross-References:

**B REGULAR**

Field: GROUP SERVED (90511.04,.01)

1)= S ^BNIGS("B",\$E(X,1,30),DA)=""  
2)= K ^BNIGS("B",\$E(X,1,30),DA)

C REGULAR

Field: CODE (90511.04,.02)

1)= S ^BNIGS("C",\$E(X,1,30),DA)=""  
2)= K ^BNIGS("C",\$E(X,1,30),DA)

**File #90511.05 BNI Activity Setting**

Traditional Cross-References:

B REGULAR

Field: ACTIVITY SETTING (90511.05,.01)

1)= S ^BNIAS("B",\$E(X,1,30),DA)=""  
2)= K ^BNIAS("B",\$E(X,1,30),DA)

C REGULAR

Field: CODE (90511.05,.02)

1)= S ^BNIAS("C",\$E(X,1,30),DA)=""  
2)= K ^BNIAS("C",\$E(X,1,30),DA)

**File #90511.99 BNI BMX ADO SCHEMA**

Traditional Cross-References:

B REGULAR

Field: SCHEMA NAME (90511.99,.01)

1)= S ^BNIADO("B",\$E(X,1,30),DA)=""  
2)= K ^BNIADO("B",\$E(X,1,30),DA)

Subfile #90511.991

Traditional Cross-References:

B REGULAR

Field: FIELD NUMBER (90511.991,.01)

1)= S ^BNIADO(DA(1),1,"B",\$E(X,1,30),DA)=""  
2)= K ^BNIADO(DA(1),1,"B",\$E(X,1,30),DA)

Subfile #90511.992

Traditional Cross-References:

## B REGULAR

Field: VIEW (90511.992,.01)

1)= S ^BNIADO(DA(1),2,"B",\$E(X,1,30),DA)=""

2)= K ^BNIADO(DA(1),2,"B",\$E(X,1,30),DA)

Subfile #90511.9922

Traditional Cross-References:

## B REGULAR

Field: PARAMETER (90511.9922,.01)

1)= S ^BNIADO(DA(2),2,DA(1),2,"B",\$E(X,1,30),DA)=""

2)= K ^BNIADO(DA(2),2,DA(1),2,"B",\$E(X,1,30),DA)

**File #90512.01 BNI Site Parameters**

Traditional Cross-References:

## B REGULAR

Field: SITE (90512.01,.01)

1)= S ^BNISITE("B",\$E(X,1,30),DA)=""

2)= K ^BNISITE("B",\$E(X,1,30),DA)

Subfile #90512.11101

Traditional Cross-References:

## B REGULAR

Field: COMMUNITIES (90512.11101,.01)

1)= S ^BNISITE(DA(1),11,"B",\$E(X,1,30),DA)=""

2)= K ^BNISITE(DA(1),11,"B",\$E(X,1,30),DA)

Subfile #90512.11201

Traditional Cross-References:

## ACP REGULAR WHOLE FILE (#90512.01)

Field: PERSONS ALLOWED TO SEE ALL (90512.11201,.01)

1)= S ^BNISITE("ACP",\$E(X,1,30),DA(1),DA)=""

2)= K ^BNISITE("ACP",\$E(X,1,30),DA(1),DA)

## B REGULAR

Field: PERSONS ALLOWED TO SEE ALL (90512.11201,.01)

1)= S ^BNISITE(DA(1),12,"B",\$E(X,1,30),DA)=""

2)= K ^BNISITE(DA(1),12,"B",\$E(X,1,30),DA)

**File #90512.08 BNI GUI Report**

Traditional Cross-References:

**AC REGULAR**

Field: START TIME (90512.08,.03)

1)= S ^BNIGUI("AC",\$E(X,1,30),DA)=""

2)= K ^BNIGUI("AC",\$E(X,1,30),DA)

**AUSR MUMPS**

Field: START TIME (90512.08,.03)

1)= S ^BNIGUI("AUSR",\$S(\$P(\$G(^BNIGUI(DA,0)),"^",2):\$P(^BNIGUI(DA,0),"^",2),1:1),(9999999.9999-X),DA)=""

2)= K ^BNIGUI("AUSR",\$S(\$P(\$G(^BNIGUI(DA,0)),"^",2):\$P(^BNIGUI(DA,0),"^",2),1:1),(9999999.9999-X),DA)

**B REGULAR**

Field: NAME (90512.08,.01)

1)= S ^BNIGUI("B",\$E(X,1,30),DA)=""

2)= K ^BNIGUI("B",\$E(X,1,30),DA)

**File #90512.87 BNI General Retrieval Items**

Traditional Cross-References:

**B REGULAR**

Field: ITEM (90512.87,.01)

1)= S ^BNIGRI("B",\$E(X,1,30),DA)=""

2)= K ^BNIGRI("B",\$E(X,1,30),DA)

**C REGULAR**

Field: ORDER ON MENU (90512.87,.09)

1)= S ^BNIGRI("C",\$E(X,1,30),DA)=""

2)= K ^BNIGRI("C",\$E(X,1,30),DA)

**U MUMPS**

Field: ITEM (90512.87,.01)

1)= S ^BNIGRI("U",\$SUP^XLFSTR(X),DA)=""

2)= K ^BNIGRI("U",\$SUP^XLFSTR(X),DA)

**File #90512.88 BNI General Retrieval Temp**

## Traditional Cross-References:

**B REGULAR**

Field: \$J\_\$H (90512.88,.01)

1)= S ^BNIRTMP("B",\$E(X,1,30),DA)=""

2)= K ^BNIRTMP("B",\$E(X,1,30),DA)

**C REGULAR**

Field: NAME OF REPORT (90512.88,.03)

1)= S ^BNIRTMP("C",\$E(X,1,30),DA)=""

2)= K ^BNIRTMP("C",\$E(X,1,30),DA)

**TRIGGER**

Field: SORT ITEM (90512.88,.07)

Triggered Field: SORT TEXT (90512.88,.08)

1)= K DIV S DIV=X,D0=DA,DIV(0)=D0 S Y(1)=\$S(\$D(^BNIRTMP(D0,0)):^(0,1:")) S X=\$P(Y(1),U,8),X=X S DIU=X K Y X ^DD(90512.88,.07,1,1,1.1) S DIH=\$G(^BNIRTMP(DIV(0),0)),DIV=X S \$P(^0),U,8)=DIV,DIH=90512.88,DIG=.08 D ^DICR

1.1)= S X=DIV S I(0,0)=\$G(D0),D0=DIV S:'D0!'\$D(^BNIGRI(+D0,0)) D0=-1 S Y(101)=\$S(\$D(^BNIGRI(D0,0)):^(0,1:")) S X=\$P(Y(101),U,1) S D0=I(0,0)

1.4)= S DIH=\$S(\$D(^BNIRTMP(DIV(0),0)):^(0,1:")),DIV=X S \$P(^0),U,8)=DIV,DIH=90512.88,DIG=.08 D ^DICR:\$O(^DD(DIH,DIG,1,0))>0

2)= Q

2.1)= S X=DIV X ^DD(90512.88,.07,1,1,59.2) S X=\$P(Y(101),U,1) S D0=I(0,0)

2.4)= S DIH=\$S(\$D(^BNIRTMP(DIV(0),0)):^(0,1:")),DIV=X S \$P(^0),U,8)=DIV,DIH=90512.88,DIG=.08 D ^DICR:\$O(^DD(DIH,DIG,1,0))>0

59.2)= S I(0,0)=\$S(\$D(D0):D0,1:"),Y(1)=\$S(\$D(^BNIRTMP(D0,0)):^(0,1:")),D0=\$P(Y(1),U,7) S:'\$D(^APCLVSTS(+D0,0)) D0=-1 S Y(101)=\$S(\$D(^APCLVSTS(D0,0)):^(0,1:"))

CREATE VALUE)= #.07:#.01

DELETE VALUE)= NO EFFECT

FIELD)= #.08

Subfile #90512.89101

## Traditional Cross-References:

**B REGULAR**

Field: SCREEN ITEMS (90512.89101,.01)



1)= S ^BNIRTMP(DA(1),11,"B",\$E(X,1,30),DA)=""  
2)= K ^BNIRTMP(DA(1),11,"B",\$E(X,1,30),DA)

Subfile #90512.89102

Traditional Cross-References:

B REGULAR

Field: ITEM VALUE (90512.8910101,.01)

1)= S ^BNIRTMP(DA(2),11,DA(1),11,"B",\$E(X,1,30),DA)=""  
2)= K ^BNIRTMP(DA(2),11,DA(1),11,"B",\$E(X,1,30),DA)

Subfile #90512.89102

Traditional Cross-References:

B REGULAR

Field: PRINT ITEMS (90512.89102,.01)

1)= S ^BNIRTMP(DA(1),12,"B",\$E(X,1,30),DA)=""  
2)= K ^BNIRTMP(DA(1),12,"B",\$E(X,1,30),DA)

## 4.4 Table File

**FILE: BNI CPHAD Activity Records**  
**GLOBAL: ^BNIREC(**  
**FILE #: 90510**

| Field # | Field Name                        | Subscript              | Piece      | Type |
|---------|-----------------------------------|------------------------|------------|------|
| .01     | DATE OF ACTIVITY                  | D0,0                   | 1          | D    |
| .02     | DATE CREATED                      | D0,0                   | 2          | D    |
| .03     | CREATED BY                        | D0,0                   | 3          | P    |
| .04     | LAST EDITED BY                    | D0,0                   | 4          | P    |
| .05     | DATE LAST EDITED                  | D0,0                   | 5          | D    |
| .06     | LOCATION WHERE RECORD<br>CREATED  | D0,0                   | 6          | P    |
| .07     | LOCATION                          | D0,0                   | 7          | P    |
| .08     | PERSON PERFORMING ACTIVITY        | D0,0                   | 8          | P    |
| .09     | TOTAL TIME SPENT (hrs)            | D0,0                   | 9          | N    |
| .11     | GENERAL HEALTH CONCERN            | D0,0                   | 11         | P    |
| .12     | SPECIFIC HEALTH TOPIC             | D0,0                   | 12         | P    |
| .13     | TYPE OF ACTIVITY                  | D0,0                   | 13         | P    |
| .14     | GROUP SERVED                      | D0,0                   | 14         | P    |
| .15     | ACTIVITY SETTING                  | D0,0                   | 15         | P    |
| .16     | COMMUNITY W/IN SERVICE AREA       | D0,0                   | 16         | P    |
| .17     | TRAVEL TIME IN MINUTES            | D0,0                   | 17         | N    |
| .18     | NUMBER SERVED/ATTENDED            | D0,0                   | 18         | N    |
| .19     | MONTH                             | D0,0                   | 19         | S    |
| .21     | YEAR                              | D0,0                   | 21         | D    |
| 1101    | GENERAL HEALTH CONCERN<br>(OTHER) | D0,11                  | 1          | F    |
| 1102    | SPECIFIC HEALTH TOPIC (OTHER)     | D0,11                  | 2          | F    |
| 1103    | TYPE OF ACTIVITY IF OTHER         | D0,11                  | 3          | F    |
| 1201    | GROUP SERVED IF OTHER             | D0,12                  | 1          | F    |
| 1400    | ADDITIONAL COMMENTS               | (90510.0114)           |            |      |
|         | .01                               | ADDITIONAL<br>COMMENTS | D0,14,D1,0 | W    |

Figure 4-3: Table file for BNI CPHAD activity records

**FILE: BNI GROUP Record Definition****GLOBAL: ^BNIGROUP(****FILE #: 90510.5**

| FIELD # | FIELD NAME                        | SUBSCRIPT                         | PIECE      | TYPE |
|---------|-----------------------------------|-----------------------------------|------------|------|
| .01     | DATE OF ACTIVITY                  | D0,0                              | 1          | D    |
| .02     | DATE CREATED                      | D0,0                              | 2          | D    |
| .03     | CREATED BY                        | D0,0                              | 3          | P    |
| .04     | LAST EDITED BY                    | D0,0                              | 4          | P    |
| .05     | DATE/TIME LAST EDITED             | D0,0                              | 5          | D    |
| .06     | LOCATION WHERE RECORD<br>CREATED  | D0,0                              | 6          | P    |
| .07     | LOCATION                          | D0,0                              | 7          | P    |
| .08     | PERSON PERFORMING ACTIVITY        | D0,0                              | 8          | P    |
| .09     | TOTAL TIME SPENT                  | D0,0                              | 9          | N    |
| .11     | GENERAL HEALTH CONCERN            | D0,0                              | 11         | P    |
| .12     | SPECIFIC HEALTH TOPIC             | D0,0                              | 12         | P    |
| .13     | TYPE OF ACTIVITY                  | D0,0                              | 13         | P    |
| .14     | GROUP SERVED                      | D0,0                              | 14         | P    |
| .15     | ACTIVITY SETTING                  | D0,0                              | 15         | P    |
| .16     | COMMUNITY W/IN SERVICE<br>AREA    | D0,0                              | 16         | P    |
| .17     | TRAVEL TIME                       | D0,0                              | 17         | N    |
| .18     | NUMBER SERVED/ATTENDED            | D0,0                              | 18         | N    |
| 1101    | GENERAL HEALTH CONCERN<br>(OTHER) | D0,11                             | 1          | F    |
| 1102    | SPECIFIC HEALTH TOPIC (OTHER)     | D0,11                             | 2          | F    |
| 1103    | TYPE OF ACTIVITY IF OTHER         | D0,11                             | 3          | F    |
| 1201    | GROUP SERVED IF OTHER             | D0,12                             | 1          | F    |
|         |                                   |                                   |            |      |
| 1400    | ADDITIONAL COMMENTS               | (90510.5114)                      |            |      |
|         | .01                               | ADDITIONAL<br>COMMENTS            | W          | 1    |
| 1500    | LOG OF EDITING                    | (90510.5115)                      |            |      |
|         | .01                               | LOG OF<br>EDITING                 | D0,15,D1,0 | D    |
|         | .02                               | USER WHO<br>EDITED                | "          | P    |
| 1600    | PERSONS PERFORMING ACTIVITY       | (90510.516)                       |            |      |
|         | .01                               | PERSONS<br>PERFORMING<br>ACTIVITY | D0,16,D1,0 | 1    |

Figure 4-4: Table for BNI group record definition

**FILE: BNI General Public Health Concerns**  
**GLOBAL: ^BNIGHC(**  
**FILE #: 90511.01**

| FIELD # | FIELD NAME                    | SUBSCRIPT | PIECE | TYPE |
|---------|-------------------------------|-----------|-------|------|
| .01     | GENERAL PUBLIC HEALTH CONCERN | D0,0      | 1     | F    |
| .02     | CODE                          | D0,0      | 2     | N    |
| .03     | ASK FOR OTHER TEXT?           | D0,0      | 3     | S    |

Figure 4-5: Table for BNI general public health concerns

**FILE: BNI Specific Health Topic**  
**GLOBAL: ^BNISHT(**  
**FILE #: 90511.02**

| FIELD # | FIELD NAME                    | SUBSCRIPT | PIECE | TYPE |
|---------|-------------------------------|-----------|-------|------|
| .01     | SPECIFIC HEALTH TOPIC         | D0,0      | 1     | F    |
| .02     | CODE                          | D0,0      | 2     | N    |
| .03     | GENERAL PUBLIC HEALTH CONCERN | D0,0      | 3     | P    |
| .04     | GPRA ITEM?                    | D0,0      | 4     | S    |
| .05     | ASK FOR OTHER TEXT?           | D0,0      | 5     | S    |
| .06     | GENERAL TOPIC                 | D0,0      | 6     | S    |

Figure 4-6: Table for BNI specific health topic

**FILE: BNI Type of Activity**  
**GLOBAL: ^BNITOA(**  
**FILE #: 90511.03**

| FIELD # | FIELD NAME          | SUBSCRIPT | PIECE | TYPE |
|---------|---------------------|-----------|-------|------|
| .01     | TYPE OF ACTIVITY    | D0,0      | 1     | F    |
| .02     | CODE                | D0,0      | 2     | N    |
| .03     | ASK FOR OTHER TEXT? | D0,0      | 3     | P    |

Figure 4-7: Table for BNI type of activity

**FILE: BNI CPHAD Group Served**  
**GLOBAL: ^BNIGS(**  
**FILE #: 90511.04**

| FIELD # | FIELD NAME          | SUBSCRIPT | PIECE | TYPE |
|---------|---------------------|-----------|-------|------|
| .01     | GROUP SERVED        | D0,0      | 1     | F    |
| .02     | CODE                | D0,0      | 2     | N    |
| .03     | ASK FOR OTHER TEXT? | D0,0      | 3     | P    |

Figure 4-8: Table for BNI CPHAD group served

**FILE: BNI Activity Setting****GLOBAL: ^BNIAS(****FILE #: 90511.05****(**

| FIELD # | FIELD NAME         | SUBSCRIPT | PIECE | TYPE |
|---------|--------------------|-----------|-------|------|
| .01     | ACTIVITY SETTING   | D0,0      | 1     | F    |
| .02     | CODE               | D0,0      | 2     | N    |
| .03     | ASK FOR COMMUNITY? | D0,0      | 3     | P    |

Figure 4-9: Table for BNI activity setting

**FILE: 90511.99 BNI BMX ADO Schema****GLOBAL: ^BNIADO(**

| FIELD # | FIELD NAME                       | SUBSCRIPT   | PIECE     | TYPE   |
|---------|----------------------------------|-------------|-----------|--------|
| .01     | SCHEMA NAME                      | D0,0        | 1         | F      |
| .02     | FILE OR SUBFILE<br>NUMBER        | D0,0        | 2         | N      |
| .03     | DATASET IS READ<br>ONLY          | D0,0        | 3         | S      |
|         |                                  |             |           |        |
| 1       | FIELD NUMBER                     | (90511.991) |           |        |
| .01     | FIELD NUMBER                     | D0,1,D1,0   | 1         | F      |
| .02     | DATA TYPE                        | "           | 2         | S      |
| .03     | FIELD LENGTH                     | "           | 3         | F      |
| .04     | COLUMN HEADER                    | "           | 4         | F      |
| .05     | READ ONLY                        | "           | 5         | S      |
| .06     | KEY FIELD                        | "           | 6         | S      |
| .07     | NULL ALLOWED                     | "           | 7         | S      |
| .08     | IEN<br>AUTOMATICALLY<br>INCLUDED | "           | 8         | S      |
| .09     | ALWAYS GET<br>INTERNAL VALUE     | "           | 9         | S      |
| 1       | AUTO IDENTIFIER<br>EXTR FUNCT    | D0,1,D1,1   | E1,240    | F      |
| 2       | SPECIAL UPDATE<br>EP             | D0,1,D1,2   | E1,245    | F      |
| 3       | EXTR FUNCT FOR<br>TRIGGERED VALU | D0,1,D1,3   | E1,245    | F      |
|         |                                  |             |           |        |
| 2       | VIEW                             | (90511.992) |           |        |
|         | .01                              | VIEW        | D0,2,D1,0 | 1      |
|         | 1                                | ENTRY POINT | D0,2,D1,1 | E1,240 |
|         |                                  |             |           |        |

| FIELD # | FIELD NAME | SUBSCRIPT         | PIECE          | TYPE |
|---------|------------|-------------------|----------------|------|
|         | 2          | PARAMETER         | (90511.9922)   |      |
|         | .01        | PARAMETER         | D0,2,D1,2,D2,0 | 1    |
|         | .02        | BRIEF DESCRIPTION | "              | 2    |
|         |            |                   |                |      |
|         | 3          | DESCRIPTION       | (90511.9923)   |      |
|         | .01        | DESCRIPTION       | D0,2,D1,3,D2,0 | 1    |

Figure 4-10: Table for BNI BMX ADO schema

**FILE: 90512.01 BNI Site Parameters**  
**GLOBAL: ^BNISITE(**

| FIELD # | FIELD NAME                 | SUBSCRIPT                  | PIECE      | TYPE |   |
|---------|----------------------------|----------------------------|------------|------|---|
| .01     | SITE                       | D0,0                       | 1          | P    |   |
| .02     | REQUIRE ACTIVITY SETTING?  | D0,0                       | 2          | S    |   |
| .03     | COMMUNITY TAXONOMY         | D0,0                       | 3          | P    |   |
|         |                            |                            |            |      |   |
| 1101    | COMMUNITIES                | (90512.11101)              |            |      |   |
|         | .01                        | COMMUNITIES                | D0,11,D1,0 | 1    | P |
|         |                            |                            |            |      |   |
| 1201    | PERSONS ALLOWED TO SEE ALL | (90512.11201)              |            |      |   |
|         | .01                        | PERSONS ALLOWED TO SEE ALL | D0,12,D1,0 | 1    | P |

Figure 4-11: Table for BNI site parameters

**FILE: 90512.08 BNI 06 GUI Report**  
**GLOBAL: ^BNIGUI(**

| FIELD # | FIELD NAME                | SUBSCRIPT | PIECE | TYPE |
|---------|---------------------------|-----------|-------|------|
| .01     | NAME                      | D0,0      | 1     | F    |
| .02     | USER WHO REQUESTED REPORT | "         | 2     | P    |
| .03     | START TIME                | "         | 3     | D    |
| .04     | END TIME                  | "         | 4     | D    |
| .05     | TYPE OF REPORT            | "         | 5     | F    |
| .06     | STATUS                    | "         | 6     | S    |
| .07     | TYPE OF OUTPUT            | "         | 7     | S    |
| 1100    | PRINT FORMATTED           |           |       |      |

| FIELD # | FIELD NAME                    | SUBSCRIPT  | PIECE | TYPE |
|---------|-------------------------------|------------|-------|------|
|         | OUTPUT                        |            |       |      |
| .01     | OUTPUT                        | D0,11,D1,0 | 1     | W    |
| 1200    | DELIMITED FORMATTED<br>OUTPUT | D0,12,d1,0 | 1     | W    |

Figure 4-12: Table for BNI 06 GUI report

**FILE: 90512.87 BNI General Retrieval Items**  
**GLOBAL: ^BNIGRI(**

| FIELD # | FIELD NAME                   | SUBSCRIPT | PIECE | TYPE |
|---------|------------------------------|-----------|-------|------|
| .001    | NUMBER                       |           | N     |      |
| .01     | ITEM                         | D0,0      | 1     | F    |
| .02     | TYPE                         | D0,0      | 2     | S    |
| .021    | INPUT TX FOR FREE<br>TEXT    | D0,21     | K     |      |
| .022    | HELP PROMPT FOR FREE<br>TEXT | D0,22     | K     |      |
| .025    | INPUT TX FOR NUMERIC         | D0,25     | K     |      |
| .026    | HELP PROMPT FOR<br>NUMERIC   | D0,26     | K     |      |
| .03     | QMAN TERM                    | D0,0      | 3     | F    |
| .04     | FILE, FIELD FOR DIR/DIQ      | D0,0      | 4     | F    |
| .05     | PRINT/SELECT/SORT            | D0,0      | 5     | F    |
| .06     | COLUMN HEADER                | D0,0      | 6     | F    |
| .07     | SUGGESTED COLUMN<br>WIDTH    | D0,0      | 7     | N    |
| .08     | MULT LOGIC                   | D0,0      | 8     | S    |
| .09     | ORDER ON MENU                | D0,0      | 9     | N    |
| .11     | RECORD                       | D0,0      | 11    | F    |
| .12     | PRINT MENU HEADER            | D0,0      | 12    | F    |
| .13     | DATE RANGE<br>NECESSARY      | D0,0      | 13    | S    |
| .14     | GUI LOOKUP VALUE             | D0,0      | 14    | F    |
| 1       | SCREEN LOGIC                 | D0,1      | K     |      |
| 2       | TRANSLATION LOGIC            | D0,2      | K     |      |
| 3       | PRINT LOGIC                  | D0,3      | K     |      |
| 4       | SORT LOGIC                   | D0,4      | K     |      |
| 99991   | DAY OF WEEK                  | D0,9999   | 1     | S    |
| .02     | REPORTS                      | “         | 2     | F    |
| .03     | SEL                          | “         | 3     | F    |

Figure 4-13: Table for BNI general retrieval items

**FILE: BNI General Retrieval TMP**  
**GLOBAL: ^BNIRTMP(**  
**FILE #: 90512.88**

| FIELD # | FIELD NAME              | SUBSCRIPT     | PIECE            | TYPE |
|---------|-------------------------|---------------|------------------|------|
| .01     | \$J_\$H                 | D0,0          | 1                | F    |
| .02     | PERMANENT               | "             | 2                | S    |
| .03     | NAME OF REPORT          | "             | 3                | F    |
| .04     | SEPARATE PAGE           | "             | 4                | S    |
| .05     | COUNT TYPE              | "             | 5                | S    |
| .06     | RECORD                  | "             | 6                | S    |
| .07     | SORT ITEM               | "             | 7                | P    |
| .08     | SORT TEXT               | "             | 8                | F    |
| .09     | PACKAGE                 | "             | 9                | F    |
| .11     | DATE RANGE<br>NECESSARY | "             | 11               | S    |
| .12     | FLAT FILE NAME          | "             | 12               | F    |
| .13     | USER CREATED            | "             | 13               | P    |
|         |                         |               |                  |      |
| 1101    | SCREEN ITEMS            | (90512.89101) |                  |      |
|         | .01                     | SCREEN ITEMS  | D0,11,D1,0       | 1    |
| P       |                         |               |                  |      |
|         | .02                     | ITEM 2        | "                | 2    |
| F       |                         |               |                  |      |
|         |                         |               |                  |      |
|         | 1101                    | ITEM VALUE    | (90512.8910101)  |      |
|         | .01                     | ITEM VALUE    | D0,11,D1,11,D2,0 | 1    |
| F       |                         |               |                  |      |
|         | .02                     | ITEM VALUE 2  | "                | 2    |
| F       |                         |               |                  |      |
|         |                         |               |                  |      |
| 1102    | PRINT ITEMS             | (90512.89102) |                  |      |
|         | .01                     | PRINT ITEMS   | D0,12,D1,0       | 1    |
| P       |                         |               |                  |      |
|         | .02                     | LENGTH        | "                | 2    |
| N       |                         |               |                  |      |

Figure 4-14: Table for BNI general retrieval TMP



## **5.0 Archiving and Purging**

There is no archiving and purging in this package.

## 6.0 External Relations

### 6.1 External Calls

This package calls the following documented entry points:

### 6.2 Callable Routines

There are no published entry points in this package.

| Routine        | Is Invoked by                                                                                    |
|----------------|--------------------------------------------------------------------------------------------------|
| ^BNIRP1        | opt                                                                                              |
| BNIG^BNIRP1    | BNIGU                                                                                            |
| ^BNIRP2        | opt                                                                                              |
| ^BNIRP3        | opt                                                                                              |
| ^BNIRP4        | opt                                                                                              |
| ^BNIRP5        | opt                                                                                              |
| ^BNIRP6        | opt                                                                                              |
| ^BNIRP7        | opt                                                                                              |
| ^BNITAS        | opt                                                                                              |
| EP^BNITAXE     | BNITAXT                                                                                          |
| ^BNITAXT       | opt                                                                                              |
| ^BNITGHC       | opt                                                                                              |
| ^BNITGS        | opt                                                                                              |
| ^BNITSHT       | opt                                                                                              |
| ^BNITTOA       | opt                                                                                              |
| EN^DDIOL       | BNIE                                                                                             |
| ^DDS           | BNIE,BNIG                                                                                        |
| REFRESH^DDSUTL | BNIE,BNIG                                                                                        |
| REQ^DDSUTL     | BNIE,BNIG                                                                                        |
| UNED^DDSUTL    | BNIE,BNIG                                                                                        |
| \$\$GET^DDSVAL | BNIE,BNIG                                                                                        |
| PUT^DDSVAL     | BNIE,BNIG                                                                                        |
| ^DIC           | BNIE,BNIG,BNIGVL,BNIGVL0,BNIRP1,BNITAXE,BNITAXT,BNIU<br> dd90510, dd90510.5, dd90512.01          |
| IX^DIC         | BNIGVL,BNIGVLD                                                                                   |
| FILE^DICN      | BNIE,BNIG,BNIGVL,BNIPOST,BNIRP1,BNIRP2,BNIRP3,BNIRP4<br>BNIRP5,BNIRP6,BNIRP7,BNITAXE             |
| ^DICR          | dd90510.0115, dd90510.5115, dd90512.88                                                           |
| ^DIE           | BNIE,BNIG,BNIGVL,BNIGVL3,BNIGVL4,<br>BNIRP1,BNIRP2,BNIRP3,<br>BNIRP4,BNIRP5,BNIRP6,BNIRP7,BNITAX |

| Routine          | Is Invoked by                                                                                        |
|------------------|------------------------------------------------------------------------------------------------------|
|                  | E,BNITAXT                                                                                            |
| FILE^DIE         | BNIGE                                                                                                |
| UPDATE^DIE       | BNIGE                                                                                                |
| WP^DIE           | BNIGE                                                                                                |
| ^DIK             | BNIE,BNIG,BNIGE,BNIGU,BNIGVL,BNIGVLD,BNIPOST,BNITAXT                                                 |
| ENALL^DIK        | BNIPOST                                                                                              |
| IX1^DIK          | BNIG,BNIGVL,BNIPOST,BNIRP1,BNIRP2,BNIRP3,BNIRP4,BNIRP5,BNIRP6,BNIRP7                                 |
| ^DIM             | dd90512.87                                                                                           |
| \$\$GET1^DIQ     | BNIGT,BNIGU                                                                                          |
| EN^DIQ           | BNIE                                                                                                 |
| EN^DIQ1          | BNIGVLP,BNIGVLP8                                                                                     |
| ^DIR             | BNIE,BNIG,BNIGVL,BNIGVL0,BNIGVL3,BNIGVL4,BNIGVLD,BNIRP6,BNIRP7,BNITAS,BNITAXE,BNITAXT,BNITGHC,BNITGS |
| ^DIWP            | BNIGVLP1                                                                                             |
| EN^VALM          | BNIE,BNIGVL4,BNIRD,BNITAXE,BNITAXT                                                                   |
| TERM^VALM0       | BNIE,BNIGVL4,BNIRD,BNIRDSG,BNITAXE,BNITAXT                                                           |
| \$\$SETSTR^VALM1 | BNIRDSG                                                                                              |
|                  |                                                                                                      |
| CLEAR^VALM1      | BNIE,BNIG,BNIGVL4,BNIRD,BNITAXE,BNITAXT                                                              |
| FULL^VALM1       | BNIE,BNIG,BNIGVL4,BNIRD,BNITAXE,BNITAXT                                                              |
| ^XBDBQUE         | BNIGVL,BNIRP1,BNIRP2,BNIRP3,BNIRP4,BNIRP5,BNIRP6,BNIRP7,BNITAS,BNITGHC,BNITGS,BNITSHT,BNITTOA        |
| \$\$VAL^XBIDIQ1  | BNIE,BNIRP1,BNIRP2,BNIRP3,BNIRP4,BNIRP5,BNIRP6,BNIRP7,BNITAS,BNITAXE,BNITGHC,BNITGS,BNITSHT,BNITTOA  |
| \$\$VALI^XBIDIQ1 | BNIRP1,BNIRP2,BNIRP3,BNIRP4,BNIRP5,BNIRP6,BNIRP7                                                     |
| ENP^XBIDIQ1      | BNIRDSG                                                                                              |
| ^XBFMK           | BNIE,BNIGVL,BNIPOST,BNIRP1,BNIRP2,BNIRP3,BNIRP4,BNIRP5,BNIRP6,BNIRP7,BNITAXE,BNITAXT                 |
| ^XBGSAVE         | BNIGVLP2                                                                                             |

| <b>Routine</b>                     | <b>Is Invoked by</b>                                                                        |
|------------------------------------|---------------------------------------------------------------------------------------------|
| GUIR^XBLM                          | BNIGU,BNIGVL,BNIRP1,BNIRP2,BNIRP3,BNIRP4,BNIRP5,BNIRP6                                      |
| BNIRP7                             |                                                                                             |
| EN^XBNEW                           | BNIRD                                                                                       |
| EN^XBVK                            | BNIE,BNIG,BNIGVL1,BNIGVLP8,BNIRP1,BNIRP2,BNIRP3,BNIRP4                                      |
| \$\$DOW^XLFDT                      | BNIRP7                                                                                      |
| \$\$FMADD^XLFDT                    | BNIGVLU,BNIRP1,BNIRP2,BNIRP3,BNIRP4,BNIRP5,BNIRP6,BNIRP7                                    |
| \$\$FMTE^XLFDT                     | BNIE,BNIG,BNIGE,BNIGU,BNIGVL,BNIRDSG,BNIRP1,BNIRP2                                          |
| BNIRP3,BNIRP4,BNIRP5,BNIRP6,BNIRP7 |                                                                                             |
| \$\$NOW^XLFDT                      | BNIGE,BNIGVL,BNIRP1,BNIRP2,BNIRP3,BNIRP4,BNIRP5,BNIRP6                                      |
| BNIRP7                             |                                                                                             |
| \$\$REPEAT^XLFSTR                  | BNIE,BNIRP1,BNIRP2,BNIRP3,BNIRP4,BNIRP5,BNIRP6,BNIRP7,BNITAS,BNITGHC,BNITGS,BNITSHT,BNITTOA |
| \$\$UP^XLFSTR                      | dd90512.87                                                                                  |
| DISP^XQORM1                        | BNIE,BNIGVL4,BNIRD,BNITAXE,BNITAXT                                                          |

Figure 6-1: Table for callable routines

### 6.3 Exported Options

| Option Name                   | Option Title                                    |
|-------------------------------|-------------------------------------------------|
| BNI AS TABLE LISTING          | Activity Setting Table Listing                  |
| BNI COMMUNITY TAXONOMY SETUP  | Update Community Taxonomy                       |
| BNI EDIT SITE PARAMETERS      | Edit Site Parameters                            |
| BNI ENTER DATA                | Enter Activity Record                           |
| BNI GHC TABLE LISTING         | General Public Health Concern Table Listing     |
| BNI GROUP ENTRY               | Group Activity Entry                            |
| BNI GROUP TABLE LISTING       | Group Served Table Listing                      |
| BNI REPORTS MENU              | CPHAD Reports                                   |
| BNI RPT GENERAL RETRIEVAL     | CPHAD General Retrieval                         |
| BNI RPT TIME SPENT BY ACT SET | Time Spent by Activity Setting                  |
| BNI RPT TIME SPENT BY DATE    | Time Spent by Date of Activity                  |
| BNI RPT TIME SPENT BY PERSON  | Time Spent by Person Performing Activity        |
| BNI RPT TIME SPENT BY PHC     | Time Spent by Public Health Concern             |
| BNI RPT TIME SPENT BY SHT     | Time Spent by Specific Health Topic             |
| BNI RPT TIME SPENT BY TOA     | Time Spent by Type of Activity                  |
| BNI RPT TIME SPENT GPRA       | Time Spent on GPRA Elements                     |
| BNI SHT TABLE LISTING         | Specific Health Topic Table Listing             |
| BNI TABLE LISTINGS            | Table Listings                                  |
| BNI TOA TABLE LISTING         | Type of Activity Table Listing                  |
| BNIMENU                       | Public Health Activity Reporting System (CPHAD) |
| BNIRPC                        | BNI Application Context                         |

Figure 6-2: Table for exported options

## 7.0 Internal Relations

All users should be given the access to the appropriate options and keys to them, as needed. All of the options in this system stand alone.

## 8.0 How to Generate Online Documentation

The file number range for this package is 90510 through 90512. The namespace is BNI. All templates, routines, screen forms, etc. begin with BNI.

This section describes some of the methods by which users can generate IHS COMMUNITY PUBLIC HEALTH DATA SYSTEM technical documentation. Online technical documentation pertaining to the IHS COMMUNITY PUBLIC HEALTH DATA SYSTEM reporting software, in addition to that which is located in the help prompts and on the help screens throughout the IHS Community Health Data System, can be generated through the use of several kernel options. These include, but are not limited to, the following:

- %INDEX
- Menu Management
- Inquire Option
- Print Option File
- VA FileMan
- Data Dictionary Utilities
- List File Attributes

Entering question marks at the “Select...Option” prompts can also provide users with valuable technical information. For example, a single question mark (?) lists all options that can be accessed from the current option. Entering two question marks (??) lists all options accessible from the current one, showing the formal name and lock for each. Three question marks (???) displays a brief description for each option in a menu, whereas an option name preceded by a question mark (?OPTION) shows extended help, if available, for that option.

For a more exhaustive option listing and further information about other utilities that supply online technical information, please consult the DHCP Kernel Reference manual.

### 8.1 %INDEX

This option analyzes the structure of a routine to determine in part if the routine adheres to RPMS Programming Standards. The %INDEX output can include the following components:

- Compiled list of errors and warnings
- Routine listing
- Local variables
- Global variables
- Naked globals

- Label references
- External references

By running %INDEX for a specified set of routines, you are afforded the opportunity to discover any deviations from RPMS Programming Standards that exist in the selected routines and to see how routines interact with one another (i.e., which routines call or are called by other routines).

To run %INDEX for the IHS Community Public Health Data System package, specify the BNI namespace at the Routine(s)?> prompt.

## 8.2 Inquire Option

This menu management option provides the following information about a specified option:

- Option name
- Menu text
- Option description
- Type of option
- Lock (if any)

In addition, all items on the menu are listed for each menu option. To secure information about IHS Community Public Health Data System options, you must specify the BNI namespace.

## 8.3 Print Option File

This utility generates a listing of options from the Option file (#19). You can choose to print all of the entries in this file or you can specify a single option or range of options. For a list of IHS Community Public Health Data System options, please refer to the Exported Options section of this manual.

## 8.4 List File Attributes

This VA FileMan option allows you to generate documentation pertaining to files and file structure. Using the Standard format of this option yields the following data dictionary information for a specified file:

- File name and description
- Identifiers
- Cross-references
- Files pointed to by the file specified
- Files that point to the file specified input, print, and sort templates



In addition, the following applicable data is supplied for each field in the file:

- Field name, number, title, and description
- Global location
- Help prompt
- Cross-references
- Input transform
- Date last edited
- Notes

Using the Global Map format of this option generates an output that lists the following information:

- All cross-references for the file selected
- Global location of each field in the file
- Input, print, and sort templates

For a comprehensive listing of this package's files, please refer to the files section of this manual.

## 9.0 SAC Exemptions

This program uses a standard global for export of data to the Area office. The global is called ^BNIDATA( and is killed at the root level in various routines.

The kill of these unsubscripted globals has been approved by the Standards and Conventions committee.

## 10.0 Glossary

| Term                  | Definition                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Archiving             | The storing of historical or little-used data off-line (often on tape).                                                                                                                                                                                                                                                                                              |
| Banner                | A line of text with a user's name and domain.                                                                                                                                                                                                                                                                                                                        |
| Browser               | An interactive application that displays ASCII text on a terminal that supports a scroll region. The text can be in the form of a word-processing field or sequential local or global array. The user is allowed to navigate freely within the document.                                                                                                             |
| Callable Entry Points | Places within a routine that can be called from an application program.                                                                                                                                                                                                                                                                                              |
| Cross-reference       | An indexing method whereby files can include pre-sorted lists of entries as part of the stored database. Cross-references (x-refs) facilitate look-up and reporting.                                                                                                                                                                                                 |
| Entry Point           | Entry point within a routine that is referenced by a "DO" or "GOTO" command from a routine internal to a package.                                                                                                                                                                                                                                                    |
| File                  | A set of related records or entries treated as a single unit.                                                                                                                                                                                                                                                                                                        |
| FileMan               | The database management system for RPMS.                                                                                                                                                                                                                                                                                                                             |
| Global                | In MUMPS, global refers to a variable stored on disk (global variable) or the array to which the global variable may belong (global array).                                                                                                                                                                                                                          |
| ICD                   | International Classification of Diseases.                                                                                                                                                                                                                                                                                                                            |
| INDEX (%INDEX)        | A Kernel utility used to verify routines and other MUMPS code associated with a package. Checking is done according to current ANSI MUMPS standards and RPMS programming standards. This tool can be invoked through an option or from direct mode (>D ^%INDEX).                                                                                                     |
| IRM                   | Information Resource Management: the IHS personnel responsible for information systems management and security.                                                                                                                                                                                                                                                      |
| Kernel                | The set of MUMPS software utilities that function as an intermediary between the host operating system and application packages, such as Laboratory and Pharmacy. The kernel provides a standard and consistent user and programmer interface between application packages and the underlying MUMPS implementation. These utilities provide the foundation for RPMS. |

| Term                         | Definition                                                                                                                                                                                                                                                                                                                                                                        |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Menu                         | A list of choices for computing activity. A menu is a type of option designed to identify a series of items (other options) for presentation to the user for selection. When displayed, menu-type options are preceded by the word “Select” and followed by the word “option” as in Select Menu Management option: (the menu’s select prompt).                                    |
| Namespace                    | A unique set of 2 to 4 alpha characters that are assigned by the database administrator to a software application.                                                                                                                                                                                                                                                                |
| Option                       | An entry in the Option file. As an item on a menu, an option provides an opportunity for users to select it, thereby invoking the associated computing activity. Options may also be scheduled to run in the background, non-interactively, by TaskMan.                                                                                                                           |
| Patient Care Component (PCC) | The central repository for data in the Resource and Patient Management System (RPMS).                                                                                                                                                                                                                                                                                             |
| Queuing                      | Requesting that a job be processed at a later time rather than within the current session.                                                                                                                                                                                                                                                                                        |
| Routine                      | A program or sequence of instructions called by a program that may have some general or frequent use. MUMPS routines are groups of program lines that are saved, loaded, and called as a single unit via a specific name.                                                                                                                                                         |
| UCI                          | User Class Identification: a computing area.                                                                                                                                                                                                                                                                                                                                      |
| Up-Hat (^)                   | A circumflex, also know as a “hat” or “caret,” that is used as a piece delimiter in a global. The up-hat is denoted as “^” and is typed by pressing Shift+6 on the keyboard.                                                                                                                                                                                                      |
| Utility                      | A callable routine line tag or function. A universal routine usable by anyone.                                                                                                                                                                                                                                                                                                    |
| Variable                     | A character or group of characters that refers to a value. MUMPS recognizes 3 types of variables – local variables, global variables, and special variables. Local variables exist in a partition of the main memory and disappear at sign-off. A global variable is stored on disk, potentially available to any user. Global variables usually exist as parts of global arrays. |

## 11.0 Contact Information

If you have any questions or comments regarding this distribution, please contact the OIT Help Desk by:

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

**Fax:** (505) 248-4363

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

**Email:** [ITSCHelp@mail.ihs.gov](mailto:ITSCHelp@mail.ihs.gov)