Meditech Field Guide

A “Field” Guide to Meditech’s NPR world.
Session Agenda

1. Meditech System Overview
2. Data Processing Modules
3. Array Data Storage
4. Data Records
5. Indexes
Session Agenda

1. Standard Fields
2. Computed Fields
3. Lookups
Meditech System Perspective
Actual System Configuration

Independent Systems

- ABS
- BAR
- ADM
- OE
- LAB
- NUR
Background Jobs
Module-to-Module Connections
Module-to-Module Connections
Data Procedure Module (DPM)

- Group of programs and related data
Data Processing Modules (DPM’s)
Data Processing

ADM.STAT.KEYS
ADM.PAT
ADM.BED.STATUS
ADM.PARAM
ADM.CHARGES
ADM.STATS

DATA

ADM

DICTIONARY

Modules (DPM’s)
DPM Data Storage

- All DPM’s store data in arrays

- This means all Meditech application data is stored in arrays.

- This means you need to learn something about them!
Array Data Storage Definition

Data structure consisting of elements accessed by indexing
Array Data Storage

- Technical Definition of Array
  - Data structure consisting of elements accessed by indexing

- Data Structure
  - Storage method for data (Record).

- Elements
  - Discrete pieces of data (Fields).

- Indexing
  - Pointers to the records.
Non-Technical Definition of Array

Records consisting of fields accessed by pointers
Array Example: Spreadsheet

<table>
<thead>
<tr>
<th></th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
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</table>
Array Fields

A  B  C  D  E  F  G
1
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3
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10
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18
19

Cell is the equivalent of a field.
Pointers

One of the main reasons for dictionaries in the Meditech system is to build pointers to your data.
Array Pointer Names: Subscripts

<table>
<thead>
<tr>
<th></th>
<th>A</th>
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</tbody>
</table>
Required for Fields to Work

Column (Subscript)

Row (Subscript)

All subscripts (pointers) All in the right sequence

[COLUMN, ROW] [D, 10]
Where’s the Records?

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
</tr>
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<tbody>
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</tr>
</tbody>
</table>

Column (Subscript)

Row (Subscript)

[COLUMN, ROW]

[D, 10]
So far all we have looked at is a field value. The Meditech system stores all data in arrays so how do we find the records?

Fields

Record

[Record, Field]

[10, D]
The Third Dimension
Three Dimensional Array

- **Record** (Subscript)
- **Column** (Subscript)
- **Row** (Subscript)

[Record, Column, Row]

[1, D, 10]
N-Dimensional Arrays

Arrays do not have a fixed number of dimensions (Subscripts).

Segments have different numbers of subscripts based on their requirements.
ADM.PAT Data Record

Node(s): *AA

* [AA, 2066237172] = →BL000003/01→WHITE,SNOW *OE TRAIN→ADM IN→000892839999→1314545→19650101→19650101→F→36→CARD/H→H5112→3→2A→H55A→20010723→0950
* [AA, 2066237172, A] = →RC→NHI→S→N→
* [AA, 2066237172, AD] = →100 ENCHANTED FOREST ROAD→MOUNT PEARL→NF→A1E 4T6→709→454→8585–
* [AA, 2066237172, B] = →687528311→**MRI.N.TESTER→FLURRY→WHITE,SNOW→PMR→WD→→DO→→→→→Y

* [AA, 2066237172, CD, ADMHRMSG] = →
* [AA, 2066237172, CD, ADMSTATUS] = →SC
* [AA, 2066237172, CD, INSCODVER] = →N
* [AA, 2066237172, CD, PBPLACE] = NEVERLAND
* [AA, 2066237172, CDS, ADM-PAT STATUS] = 1
* [AA, 2066237172, CN] = →C→N→20030618→0953→
* [AA, 2066237172, CNA] = →BLT ADM→E→Y→3053→OFFICE→N→
* [AA, 2066237172, CND] = →E→0→000003345
* [AA, 2066237172, CMF] = →YES
* [AA, 2066237172, DR] = →MURG→MURG→BARO→MURG
* [AA, 2066237172, E] = →A CRAES→0→10 Rowan St.→St. John’s→NF→A1B 2X3 →754→0661
* [AA, 2066237172, V] = →ENADMIN→20010723→A1E 4T6→MURG→MURG→H5SB→NS→H5130→1→0A→PMR→W
D→SUNEUR/H N
* [AA, 2066237172] = →0951→GIBGER→0950→H5130→1→0A

Subscripts: Left of the equals sign

Data: Right of the equals sign
[Subscripts] = Access Requirements

Node(s): *AA

* [AA, 2066237172] = 8/3/03/01 WHITE, SNOW * OE TRAIN A0D IN 000892839999 1314545 19650101 19650101 F 36 CARD/H H56A 2A H56A 20010723 0950
* [AA, 2066237172, A] = RC NHI S N
* [AA, 2066237172, AD] = 100 ENCHANTED FOREST ROAD MOUNT PEARL NF A1E 4T6 709-454-8585
* [AA, 2066237172, B] = 68752831 N TEST ER FLURRY WHITE SNOW PMR WD DO
* [AA, 2066237172, CD, ADMHRMSG3] =
* [AA, 2066237172, CD, ADMSTATUS] = SC
* [AA, 2066237172, CD, INSCDVER] = N
* [AA, 2066237172, CD, PBPLACE] = NEVERLAND
* [AA, 2066237172, CSS, ADM-PAT STATUS] = 1
* [AA, 2066237172, CN] = 200030618 0953
* [AA, 2066237172, CMA] = BLT ADM E Y 3053 OFFICE N
* [AA, 2066237172, CMD] = E 0 000003345
* [AA, 2066237172, CMF] = YES
* [AA, 2066237172, DR] = MURG MURG BARO MURG
* [AA, 2066237172, E] = A CRAES 8-10 Rowan St St John’s NF A1B 2X3 754-0661
* [AA, 2066237172, EV, 20010723, 1] = ENADMIN 20010723 A1E 4T6 MURG MURG H5SB NS H5130 1 0A PMR WD SUNEUR H NHI MURG
* [AA, 2066237172, EV, 20010723, 1, D] = 0951 GIBGER 0950 H5130 1 0A

<RETURN>
## Packed Data Pieces

Node(s): *AA

```plaintext
* [AA, 2066237172] = →BL000003/01→WHITE, SNOW *OE TRAIN →ADM IN 00089283999→1314545→19650101→19650101→F 36→CARD/H→H5112→3→2A→H5SA→20010723→0950
* [AA, 2066237172, A] = →RC→NHI→S→N→
* [AA, 2066237172, AD] = →100 ENCHANTED FOREST ROAD →MOUNT PEARL, NF →A1E 4T6→709-454-8585→
* [AA, 2066237172, B] = →687528311→*MRTN.TESTER, FLURRY, WHITE, SNOW→PMR→WD→.→DO→.→.→Y
* [AA, 2066237172, CD, ADMHRMSG3] = →
* [AA, 2066237172, CD, ADMSTATUS] = →SC
* [AA, 2066237172, CD, INSCODVER] = →N
* [AA, 2066237172, CD, PBPLACE] = →NEVERLAND
* [AA, 2066237172, CD, ADM-PAT STATUS] = 1
* [AA, 2066237172, CN] = →C→N→20030618→0953→
* [AA, 2066237172, CMA] = →BLT ADM→E→Y→3053→OFFICE→N→
* [AA, 2066237172, CND] = →E→O→000003345
* [AA, 2066237172, CMF] = →YES
* [AA, 2066237172, DR] = →MURG>MURG>BARO>MURG
* [AA, 2066237172, E] = →A CRAES→8-10 Rowan St.→St. John’s→NF→A1B 2X3→754-0661
* [AA, 2066237172, EV, 20010723, 1] = →ENADMIN→20010723→A1E 4T6>MURG>MURG>H5SB-NS→H5130-1→0A→PMR→W
D→SUNEUR/H→NHI→MURG
* [AA, 2066237172, EV, 20010723, 1, D] = →0951→GIBGER→0950→H5130-1→0A
<RETURN>
```

*Fields separated by special character (→)*
DPM’s & Data Definitions

- Contain
  
  **Segments:** Logical groups of fields
  
  **Fields:** Data elements connected to subscripts (pointers)
  
  **Indexes:** Subscripts that point to sets of records
Segments

- Logical Group of Fields
- Logically groups records.
  - i.e. Facility
  - Patients
  - Insurances
  - Insurance Queries
- Hierarchical structure
Segment Hierarchy & Subscripts

- main
  - [urn]

- events
  - [urn, date, seq.no]

- insurances
  - [urn, insurance]

- event.segment
  - [urn, date, seq.no, event.seg]

- event.other.locations
  - [urn, date, location]

- event.undo.other.locs
  - [urn, date, other.location]
## DPM’s and Data Definitions

### Segments:
Logical groups of fields

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Len</th>
<th>Dat Typ</th>
<th>J</th>
<th>DPM</th>
<th>Offset/Local/VAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>proc.seq.no</td>
<td>2</td>
<td>PRT</td>
<td>H</td>
<td>DMM</td>
<td>ass</td>
</tr>
<tr>
<td>proc.billing.code</td>
<td>10</td>
<td>FREE</td>
<td>L</td>
<td>/XCM[1cm]</td>
<td>2</td>
</tr>
<tr>
<td>proc.pc.type</td>
<td>4</td>
<td>CHOICE</td>
<td>L</td>
<td>/XCM[1cm]</td>
<td>0</td>
</tr>
<tr>
<td>proc.service.location</td>
<td>10</td>
<td>FREE</td>
<td>L</td>
<td>/XCM[1cm]</td>
<td>1</td>
</tr>
</tbody>
</table>

### Fields:
Data elements linked to subscripts

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Len</th>
<th>Dat Typ</th>
<th>J</th>
<th>DPM</th>
<th>Offset/Local/VAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>mnemonic</td>
<td>10</td>
<td>FREE</td>
<td>L</td>
<td>A(AC[ac])</td>
<td>0</td>
</tr>
<tr>
<td>description</td>
<td>30</td>
<td>FREE</td>
<td>L</td>
<td>A(AC[ac])</td>
<td>1</td>
</tr>
</tbody>
</table>

### Indexes:
Subscripts that point to sets of records

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Len</th>
<th>Dat Typ</th>
<th>J</th>
<th>DPM</th>
<th>Offset/Local/VAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>location</td>
<td>10</td>
<td>FREE</td>
<td>L</td>
<td>MIS.LOCN</td>
<td>gpm</td>
</tr>
<tr>
<td>output.billing.code</td>
<td>10</td>
<td>FREE</td>
<td>L</td>
<td>A(AC[ac])</td>
<td>1</td>
</tr>
<tr>
<td>service</td>
<td>10</td>
<td>FREE</td>
<td>L</td>
<td>MIS.SVC</td>
<td>gss</td>
</tr>
<tr>
<td>admit.billing.code</td>
<td>10</td>
<td>FREE</td>
<td>L</td>
<td>A(AC[ac])</td>
<td>1</td>
</tr>
</tbody>
</table>

### Index Files
Subscripts/Physical Base

- **type.index**
  - [pat.type, mnemonic]
  - A(AC[ac])

- **type.location.index**
  - [pat.type, location, mnemonic]
  - A(AC[ac])

- **type.service.index**
  - [pat.type, service, mnemonic]
  - A(AC[ac])
All DPMs have a main segment.

Usually important for report writers.

Indent:
Many-to-one relationship with segment above
### Segment: Field Info

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Enter in your reports</th>
</tr>
</thead>
<tbody>
<tr>
<td>Len</td>
<td>Length of Field</td>
</tr>
<tr>
<td>Dat Typ:</td>
<td>Data Type (output only)</td>
</tr>
<tr>
<td>J</td>
<td>Justify (L=Left  C=Center  R=Right)</td>
</tr>
<tr>
<td>DPM</td>
<td>Indicates if field is a pointer</td>
</tr>
<tr>
<td>Offset/Local/VAL</td>
<td>Field Type</td>
</tr>
</tbody>
</table>
## Data Field Types

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
<th>Notes</th>
</tr>
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<tbody>
<tr>
<td>Disk</td>
<td>Packed data (Offset)</td>
<td></td>
</tr>
<tr>
<td>Memory</td>
<td>Subscript variable (Local)</td>
<td></td>
</tr>
<tr>
<td>Run Time</td>
<td>Computed value (VAL)</td>
<td></td>
</tr>
<tr>
<td>Virtual</td>
<td>Special field type</td>
<td>Used with specific indexes</td>
</tr>
</tbody>
</table>
## Disk Based Data Fields

- Links “English” to “machine language”
- Called physical address.

<table>
<thead>
<tr>
<th>English Language Field Name</th>
<th>Machine Language Physical Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>@account.number</td>
<td>*AA[aa]</td>
</tr>
<tr>
<td>@ADM.PAT.account.number</td>
<td>*AA[aa]</td>
</tr>
</tbody>
</table>

[Subscripts]
**Web Data Definitions: Standard Version**

### Report Library
- Reports for downloading grouped by application and DPM. Left-click to open for copy & paste. Right-click to download.

### Module Information
- An overview of the module including field links for fragments, most common data segments and what other modules are open to it. This is the place to start if you are not familiar with the module.

### Documentation
- Technical documentation you need to know to write reports.
- Why try and remember all that “stuff” when you can look it up here!
- Functional & Graphical Field Attributes, Z Programs, system macros, run-time variables and footnotes.

### Course Reviews
- Our course material is always available. Use it for after training review as well as preparing for upcoming courses.

### Data Defs.
- Do on-line versions are searchable using EdibFind on this page. This is the map to your Meditech data. Remember! Without your map you will be lost!
- Magic Standard
- Magic UK
- 49 SR6
- 5.4 SR2
- 5.5 SR2

### Support Forum
- Place to look for help. These forums are peer as well as instructor support. All are monitored by an instructor. You may be notified by email even if an answer is posted to your question.

### On-Line Courses
- Here you can log in for a scheduled session, test your PC set up for the on-line training application, trouble shoot audio & microphone problems as well as view the upcoming training session dates and times.

### Other Links
- Change Password
- Helps
- Troubleshooting steps.
- Log Out
- Ends your browser connection to the resource web and returns you to our main page.

**Training Calendar 2006**
- Report Writing On-Line Schedule
# Module Select

## CS 5.5 SR2 Applications

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<thead>
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<th>ABS</th>
<th>ADM</th>
<th>AP</th>
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<tr>
<td>MIS</td>
<td>MM</td>
<td>MRI</td>
<td>MRM</td>
<td>NPR</td>
</tr>
<tr>
<td>NUR</td>
<td>OE</td>
<td>PBR</td>
<td>PHA</td>
<td>PP</td>
</tr>
<tr>
<td>PRV</td>
<td>PWM</td>
<td>QM</td>
<td>RAD</td>
<td>RXM</td>
</tr>
<tr>
<td>SCH</td>
<td>SS</td>
<td>UNV</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
DPM’s – Data Processing Modules

ADM Data Procedure Modules

Most Common

<table>
<thead>
<tr>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADM.PAT</td>
</tr>
<tr>
<td>ADM.STAT.KEYS</td>
</tr>
<tr>
<td>ADM.STATS</td>
</tr>
</tbody>
</table>

Others

<table>
<thead>
<tr>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADM.BILL</td>
</tr>
<tr>
<td>ADM.CLIN.ALERT</td>
</tr>
<tr>
<td>ADM.HSK</td>
</tr>
<tr>
<td>ADM.TMPLT</td>
</tr>
</tbody>
</table>

Dictionaries

<p>| | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ADM.ACCESS</td>
<td>ADM.BB.ACCESS</td>
<td>ADM.BB.BSEL</td>
<td>ADM.BB.HSEL</td>
<td>ADM.BB.PDSEL</td>
</tr>
<tr>
<td>ADM.BB.PRI</td>
<td>ADM.BB.REQ</td>
<td>ADM.BB.RSEL</td>
<td>ADM.BB.SELECT</td>
<td>ADM.BB.TSEL</td>
</tr>
<tr>
<td>ADM.BED.BOARD</td>
<td>ADM.BED.STATUS</td>
<td>ADM.BLOCK.RSN</td>
<td>ADM.CAN.SWIPCDS</td>
<td>ADM.CANNED.TEXT</td>
</tr>
<tr>
<td>ADM.CCL.OR</td>
<td>ADM.CD.REG.SCRN</td>
<td>ADM.CHARGES</td>
<td>ADM.CLINT</td>
<td>ADM.COND</td>
</tr>
<tr>
<td>ADM.DFT.PRT</td>
<td>ADM.HSK.REQ</td>
<td>ADM.ICR.RSN</td>
<td>ADM.MSG</td>
<td>ADM.OPTION.SET</td>
</tr>
</tbody>
</table>

For Report Writers!
Segments – Logical Groups of Fields (C/S)

ADM.PAT

alt.address.audit.trail
ccdqr
  ccdqr.multiple
ccdqr.main
diagnoses
  diag.dates
  diag.codes
doctor.list
edi.main
  edi.data
hub.pat.visit.list
ins.ver.status.log
invalid.acct.log
irf.visit.register
locals
location.list
lookup.register
main
  allergies
  appts.from.sch
  authorizations
### Identifying Data Field Types

#### Memory / Local
- (No Symbol)

#### Disk / Offset
- (Symbol)

#### Run Time
- \( VAL = \)

#### Virtual
- (Blank)

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Len</th>
<th>Dat Typ</th>
<th>J</th>
<th>DPM</th>
<th>Offset/Local/VAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>urn</td>
<td>30</td>
<td>URN</td>
<td>L</td>
<td></td>
<td>VAL=urn</td>
</tr>
<tr>
<td>aaa.vip</td>
<td>1</td>
<td>YN</td>
<td>L</td>
<td></td>
<td>$(A)AA[aa]CNA</td>
</tr>
<tr>
<td>accident.24.hours</td>
<td>1</td>
<td>YN</td>
<td>L</td>
<td></td>
<td>$(A)AA[aa]CNA</td>
</tr>
<tr>
<td>accident.comment</td>
<td>50</td>
<td>FREE</td>
<td>L</td>
<td></td>
<td>$(A)AA[aa]CNA</td>
</tr>
<tr>
<td>accident.description</td>
<td>30</td>
<td>FREE</td>
<td>L</td>
<td></td>
<td>$(A)AA[aa]CNA</td>
</tr>
<tr>
<td>accident.nature.of.injury</td>
<td>30</td>
<td>FREE</td>
<td>L</td>
<td></td>
<td>$(A)AA[aa]CNA</td>
</tr>
<tr>
<td>accident.original.treat</td>
<td>50</td>
<td>FREE</td>
<td>L</td>
<td></td>
<td>$(A)AA[aa]CNA</td>
</tr>
<tr>
<td>accident.place</td>
<td>20</td>
<td>FREE</td>
<td>L</td>
<td></td>
<td>$(A)AA[aa]CNA</td>
</tr>
<tr>
<td>accident.police.involved</td>
<td>20</td>
<td>FREE</td>
<td>L</td>
<td></td>
<td>$(A)AA[aa]B</td>
</tr>
<tr>
<td>accommodation</td>
<td>10</td>
<td>FREE</td>
<td>L</td>
<td>MIS.ACCOM</td>
<td>VAL=IF(c.date='0',admit.date!time='@admiting',VAL=can.number_seq.no,DO(@Next(old.can rehab.acct.num),@val=(&quot;ADM INo&quot;='@old.can.acct.status)'Val=umber))</td>
</tr>
<tr>
<td>acct.num.obs</td>
<td>12</td>
<td>FREE</td>
<td>L</td>
<td></td>
<td>$(A)AA[aa]0</td>
</tr>
<tr>
<td>acct.num.obs.or.in</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>VAL=IF(&quot;CANADA&quot;=@MIS.PARAM.country @acct.num=acct.num) $(A)AA[aa]</td>
</tr>
<tr>
<td>acct.number</td>
<td>12</td>
<td>FREE</td>
<td>L</td>
<td></td>
<td>VAL=IF(admit.date;@reservation.date) $(A)AA[aa]</td>
</tr>
<tr>
<td>adm.or.mri.urn</td>
<td>6</td>
<td>FREE</td>
<td>L</td>
<td></td>
<td>$(A)AA[aa]</td>
</tr>
<tr>
<td>adm.res.date.out</td>
<td>8</td>
<td>DATE</td>
<td>L</td>
<td></td>
<td>VAL=IF(admit.time;@reservation.time) $(A)AA[aa]</td>
</tr>
<tr>
<td>adm.res.time.out</td>
<td>4</td>
<td>HHMM</td>
<td>L</td>
<td></td>
<td>$(A)AA[aa]</td>
</tr>
</tbody>
</table>
### Indexes

**Index Files**

<table>
<thead>
<tr>
<th>File</th>
<th>Subscripts/Physical Base</th>
</tr>
</thead>
<tbody>
<tr>
<td>type.index</td>
<td>[pat.type, mnemonic] &amp; (A)ACT[act, ac]</td>
</tr>
<tr>
<td>type.location.index</td>
<td>[pat.type, location, mnemonic] &amp; (A)ACTL[act, ggn, ac]</td>
</tr>
<tr>
<td>type.service.index</td>
<td>[pat.type, service, mnemonic] &amp; (A)ACTS[act, ggs, ac]</td>
</tr>
</tbody>
</table>
Node(s): *AAEI

* [AAEI, CLI, 20020723, 1448, 2066239571] = 1
* [AAEI, CLI, 20020724, 1400, 2066239595] = 1
* [AAEI, CLI, 20030429, 1524, 2066241492] = 1
* [AAEI, CLI, 20030813, 1637, 2066241943] = 1
* [AAEI, CLI, 20030813, 1644, 2066241946] = 1
* [AAEI, ER, 20010808, 1224, 2066237289] = 1
* [AAEI, ER, 20030124, 1343, 2066240584] = 1
* [AAEI, ER, 20030218, 1200, 2066240943] = 1
* [AAEI, ER, 20030218, 1243, 2066240945] = 1
* [AAEI, ER, 20030328, 1110, 2066241317] = 1
* [AAEI, ER, 20030408, 1156, 2066241411] = 1
* [AAEI, ER, 20030408, 1222, 2066241413] = 1
* [AAEI, ER, 20030409, 1431, 2066241424] = 1
* [AAEI, ER, 20030409, 1439, 2066241425] = 1
* [AAEI, ER, 20030416, 1318, 2066241460] = 1
* [AAEI, ER, 20030425, 1055, 2066241475] = 1
* [AAEI, ER, 20030425, 1058, 2066241476] = 1
* [AAEI, ER, 20030505, 1043, 2066241535] = 1
* [AAEI, ER, 20030513, 1439, 2066241589] = 1
* [AAEI, ER, 20030516, 1440, 2066241637] = 1
* [AAEI, ER, 20030613, 1146, 2066241791] = 1

Sort Field

1. facility
2. status.type
3. date
4. time
5. urn
Field Name Syntax

- **name**
  - Report DPM defaulted in (ADM.PAT.name).
  - Uses existing value in subscript.

- **ADM.PAT.name**
  - DPM pointer included in field name.
  - Used when pointing to other modules.

- **ADM.PAT.name[@patient]**
  - DPM pointer included in field name.
  - Used when pointing to other modules where different subscript is used.
Field Access Levels

- **In The Path**
  Full access to all fields in the segment

- **Near The Path**
  Multiples access (fields vertically aligned) to fields

- **Out Of The Path**
  Subscripts and/or control structures required to access field values
In The Path

Full Access:
Report detail segment or above.
No direct access to other segments
In The Path: Subscripts & Segment Access

Report DPM:
[urn, insurance, query.seq.no]

[urn, insurance, cd.query, cd.query.mult.q]
Multiples Access

[urn, dx.code, dx.proc, dx.proc.mod]
No Access
Segment Access

- **In The Path - 2**
  - allergies
  - appts.from.sch
  - authorizations
  - bed.attributes
  - bed.reservations
  - can.acct.numbers
  - can.alerts
  - clinical.alerts
  - clinical.alerts.details
  - ins.expired.insurances

- **Near The Path - 8**
  - ins.auth.procedures
  - ins.auth.req.data
  - ins.auth.req.services
  - ins.authm.data
  - ins.authm.cpt.codes
  - ins.authm.procedures
  - ins.cd.queries
  - ins.cd.queries.mult
  - ins.elig.can.swipe.data
  - ins.elig.data.trace
  - ins.images
  - ins.image.pages
  - ins.queries
  - insure.order
  - loc.dates
  - med.nec.dx
  - med.nec.dx.procs
  - med.nec.dx.proc.mods
  - med.nec.dx.proc.mod.src
  - med.nec.dx.proc.source
  - med.nec.dx.source
  - name.edits

- **Out Of The Path - 24**
Computed Fields
Computed Fields

Use Magic programming expressions

Used to create user defined

- Data Fields
- Record Selects
- Sorts

Format: xx.field.name
Enter a “Y” at the (A)tribute prompt to enter the field editor.

Format: xx.field.name

Entering Computed Fields
Standard (Required) Field Attributes
Required Computed Field Attributes

Required

- **DAT** = Data Type of output. [Lookup]
- **LEN** = Length of output.
- **JFY** = Justify Output (Left, Right & Center)
- **VAL** = Magic expression that determines the output.

JFY will be provided based on DAT type
“Optional” Field Attributes

Optional (defaulted)

- FNC = Function
- WITH = Evaluate with region

Edit Field Attributes:

- DAT=
- LEN=
- JFY=
- VAL=
- FNC=(LST)
- WITH=(D)

Standard: Obtained from data definitions
Custom: You Enter to match requirements
Defaulted for ALL FIELDS
FNC: Attribute Values

FNC - Function

Format: FNC=function

Function: This attribute specifies how a set of values from one field is presented in a total region. The following functions are available:

- FST - first value
- MAX - maximum value
- LST - last value
- MIN - minimum value
- CNT - count entries
- AVG - mean value
- TOT - numerical total
- MED - median value
- VAR - variance
- MOD - mode (frequency of occurrence)
- SD - standard deviation
WITH: Attribute Values

### REG 0 0 1 2 3 4 5 6 7 8

<table>
<thead>
<tr>
<th>HP</th>
<th>HR</th>
<th>HK1</th>
<th>HK2</th>
<th>HK3</th>
<th>HK4</th>
<th>D</th>
<th>TK4</th>
<th>TK3</th>
<th>TK2</th>
<th>TK1</th>
<th>TR</th>
<th>TP</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Any region here:**

- eg: \texttt{WITH=TK4}

### Sort Field

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
</tr>
</thead>
</table>

**Any region here:**

- eg: \texttt{WITH=SK#}
## Data Types

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADDRESS</td>
<td>U.S. Address</td>
</tr>
<tr>
<td>AGE</td>
<td>nnY nnM nnD</td>
</tr>
<tr>
<td>AGE.SORT</td>
<td>nnY nnM nnDWG</td>
</tr>
<tr>
<td>BAR.CODE</td>
<td>Displays a field in bar code format (Output only)</td>
</tr>
<tr>
<td>BMP</td>
<td>Display a BMP or JPEG file on a report.</td>
</tr>
<tr>
<td>CHOICE</td>
<td>Multiple choice</td>
</tr>
<tr>
<td>DATE</td>
<td>mm/dd/yy</td>
</tr>
<tr>
<td>DAY</td>
<td>SUN MON TUE WED THR FRI SAT</td>
</tr>
<tr>
<td>DEC#</td>
<td>Non-negative decimal (# = precision)</td>
</tr>
<tr>
<td>EDATE</td>
<td>Elapsed date nnY nnM nnD</td>
</tr>
<tr>
<td>ETIME</td>
<td>Elapsed time nnD nnH nnM</td>
</tr>
<tr>
<td>FREE</td>
<td>Free text</td>
</tr>
<tr>
<td>GLPERIOD</td>
<td>GL period</td>
</tr>
</tbody>
</table>
## Data Types

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HHMM</td>
<td>24 hour clock time hhmm</td>
</tr>
<tr>
<td>HHMMDUR</td>
<td>External format: HHMM (0000-2359). Stored internally as the number of minutes (0-1439).</td>
</tr>
<tr>
<td>HHMMU</td>
<td>24 hour clock time hhmm or unknown (UKN)</td>
</tr>
<tr>
<td>HLINK</td>
<td>HTML Hyperlink</td>
</tr>
<tr>
<td>INT</td>
<td>Non-negative integer</td>
</tr>
<tr>
<td>MONEY</td>
<td>Non-negative money</td>
</tr>
<tr>
<td>MONTH</td>
<td>JAN FEB MAR APR MAY...</td>
</tr>
<tr>
<td>NAME</td>
<td>Last, first rest</td>
</tr>
<tr>
<td>OURN</td>
<td>Urn pointer with override</td>
</tr>
<tr>
<td>PDEC#</td>
<td>Positive decimal (# = precision)</td>
</tr>
<tr>
<td>PINT</td>
<td>Positive integer, not including zero</td>
</tr>
<tr>
<td>PMONEY</td>
<td>Positive money, not including zero</td>
</tr>
</tbody>
</table>
## Data Types

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>QRY.RESP</td>
<td>Query response</td>
</tr>
<tr>
<td>RATE</td>
<td>Decimal rate, maximum 5 places</td>
</tr>
<tr>
<td>SDEC#</td>
<td>Signed decimal (# = precision)</td>
</tr>
<tr>
<td>SINT</td>
<td>Signed integer</td>
</tr>
<tr>
<td>SMONEY</td>
<td>Signed money</td>
</tr>
<tr>
<td>STIME</td>
<td>Time with seconds</td>
</tr>
<tr>
<td>HHMMTIME</td>
<td>HHMM 24 hour clock</td>
</tr>
<tr>
<td>URN</td>
<td>Urn pointer</td>
</tr>
<tr>
<td>YEAR</td>
<td>4 digit year between 1880-2000</td>
</tr>
<tr>
<td>YN</td>
<td>Y/y/N/n</td>
</tr>
<tr>
<td>ZIP.POST</td>
<td>Zip or postal code</td>
</tr>
</tbody>
</table>
Effects of DAT attribute on data

**Edit Field Attributes: xx.field.name**

- **DAT=DATE**
- **LEN=8**
- **VAL=b.date**

  **Print Output = 31/01/02**

**Edit Field Attributes: xx.field.name**

- **DAT=FREE**
- **LEN=8**
- **VAL=b.date**

  **Print Output = 20020131**

**Edit Field Attributes: xx.field.name**

- **DAT=DEC1**
- **LEN=10**
- **VAL=b.date**

  **Print Output = 20020131.0**
Referencing Meditech Data Fields

The @ symbol is used as a prefix with the field name.

Syntax: @field.name

Note: The @ prefix is a call to a global macro file where the field names and their corresponding physical addresses are listed.

Data type should be the same as the data definition list.
Accessing Fields with Possessives

Definition:

Pointer fields that reference other DPM’s

Format: `@field.name + 's + other.field`

DPM’s

- PP.PAY

employee

PP.PER

name

Edit Field Attributes: `xx.field.name`

- DAT=FREE
- LEN=25
- VAL=`@employee’s.name`
Accessing Fields Out of Path

**Path:**
Determined by the subscripts of detail segment and index file.

**Access fields:**
Supply DPM, field and subscripts.

<table>
<thead>
<tr>
<th>DAT</th>
<th>FREE</th>
</tr>
</thead>
<tbody>
<tr>
<td>LEN</td>
<td>25</td>
</tr>
<tr>
<td>VAL</td>
<td>@PP.PER.name[@employee]</td>
</tr>
<tr>
<td>VAL</td>
<td>@PP.PER.cd.response[@employee, &quot;QUERY.MNEMONIC&quot;]</td>
</tr>
</tbody>
</table>
Printing Run Time Select Variables

Field: xx.print.facility
VAL = c.facility

Field: xx.print.status
VAL = c.xx.status.type

Field: xx.print.begin.date
VAL = b.date

Field: xx.print.end.date
VAL = e.date
## Printing Run Time Select Variables (Screen)

<table>
<thead>
<tr>
<th>Select Operator</th>
<th>Variable Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td>GE, GT, NC</td>
<td>b.field.name</td>
</tr>
<tr>
<td>LE, LT</td>
<td>e.field.name</td>
</tr>
<tr>
<td>EQ, NE, IG, CO, LS, FS</td>
<td>c.field.name</td>
</tr>
</tbody>
</table>

**Edit Field Attributes:** `xx.field.name`

- **DAT=DATE**
- **LEN=8**
- **VAL=b.date**
Computed Sort Fields

**User-defined sort capability**

Procedure:

1. Create a computed field
2. Enter the field name in the sort region
3. Field does not have to be in picture region
Computed Sort Field

Sample Data Produced:

ER AMB
ER WALK
Custom Sorts Using Computed Fields

Note: Number in the region identifier is the sort field number.
## Report Variables (C/S)

<table>
<thead>
<tr>
<th>Variable</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>@.appl</td>
<td>(.S)</td>
<td>APPLName of application</td>
</tr>
<tr>
<td>@.db</td>
<td>(.S)</td>
<td>DBName of application database</td>
</tr>
<tr>
<td>@.country</td>
<td>(.S).CNTRY</td>
<td>Country of MIS (US, CANADA, OTHER)</td>
</tr>
<tr>
<td>@.device</td>
<td>/.DEV</td>
<td>User's input device</td>
</tr>
<tr>
<td>@.facility</td>
<td>/(D).FAC</td>
<td>Current facility (multi-facility systems)</td>
</tr>
<tr>
<td>@.Lookup:</td>
<td>/(S).</td>
<td>LK# of entries to display in lookup</td>
</tr>
<tr>
<td>@.mri.pfx</td>
<td>/(D).MPX</td>
<td>Medical Records prefix</td>
</tr>
<tr>
<td>@.now</td>
<td>/(D).MPX</td>
<td>Current Time (military format)</td>
</tr>
<tr>
<td>@.on.device</td>
<td>/.PRT</td>
<td>Last response to &quot;On Device&quot; prompt</td>
</tr>
<tr>
<td>@.today</td>
<td>/(S).DAT</td>
<td>Current date in YYYYMMDD format</td>
</tr>
<tr>
<td>@.unv</td>
<td>/(S).UNV</td>
<td>Current universe</td>
</tr>
<tr>
<td>@.user</td>
<td>/(S).USR</td>
<td>User's mnemonic</td>
</tr>
</tbody>
</table>

**Edit Field Attributes: xx.field.name**

```
DAT=FREE
LEN=8
VAL=@.device
```
Meditech defined standard programs that are used for common tasks.

Example:

```
DAT=FREE
LEN=8
VAL=%Z.date.add(@.today,7)
```

Adds 7 days to today’s date
Field Lookups
Enter Any Previous Report

DPM? NPR.REP
Name? zcus.initials.list
Report: 1. Enter/Edit
2. List
3. Translate
4. Run
5. Copy
Macro: 6. Enter/Edit
Screen: 7. Edit Picture
8. Edit Elements
Procedure: 9. Edit Data
Select? □
<table>
<thead>
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Navigate to Fields Area

Enter/Edit Reports -

1) Picture  2) Fields  3) Regions  4) Footnotes  Select:

REG A 0----------1-----------2-----------3-----------4-----------5-----------6-----------7-----------8-----------

HP HP HP
HP HP HP
D D D

Report DPM

urn----------------------------- dpM-------------------

Field Name

1 urn

A Field Marker

urn
dpM
Add Field

Editing FIELDS - <ESC> for PICTURE or REGIONS

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Field Marker:

```
dpm
xx.test
```
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<td>Segment</td>
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<td>Segment Hierarchy</td>
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Element, Segment & DPM Lookup

Enter/Edit Report: Report List  Page 3

Editing FIELDS - <ESC> for PICTURE or REGIONS

REG  A  0-1-2-3-4-5-6-7-8

HP  HP  HP  D

. . . . . . . . .

Report

DPM

Element, Segment, DPM Lookup

Enter: Element, "S"Segment or "D"DPM
Append "/" for information.

Example: SIMIS.DOC.DICT.ca/

Edit Field Attributes: xx.test

DAT=FREE
LEN=10
VAL=

F9

Field Name  A  Field Marker
2  dpm  dpm
3  xx.test  xx.test
Element (Field) Lookup

NPR.REP Elements

1. access.path
2. active
3. any.footnotes
4. appl.doc
5. appl.doc.q
6. attribute
7. attribute.l
8. attribute.length
9. attribute.value
10. cal.dpm
11. cal.element
12. cal.local
13. cal.lvl
14. cal.urn
15. char.per.inch
16. char.per.line
17. cil.dpm
18. cil.element
19. cil.local
Segments Lookup

NPR.REP Segments

1 attributes
2 attributes.lengths
3 compile.info
4 cross.access.list
5 cross.field.list
6 cross.index.list
7 cust.rpt.audit.trail
8 cust.rpt.doc
9 docum
10 dolt.variables
11 fields
12 fields.appl.doc
13 fields.index
14 fields.tech.doc
15 fields.view
16 fields.view.main
17 footnotes
18 index.x
19 indexes
20 lines
## DPM Lookup

### DPMS

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**Element, Segment, DPM Lookup**

Enter: Element, "St"Segment or "Dl"DPM
Append "/l" for information.
*E.g., $MIS.DOC.DICT.ca/l*
Enter Zero at VAL to Exit
Segment Lookup in Field List

Enter/Edit Report: Report List  Page 3

Editing FIELDS - <ESC> for PICTURE or REGIONS

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Segment Lookup

Editing FIELDS - <ESC> for PICTURE or REGIONS

REG  A  0-1-2-3-4-5-6-7-8
HP   HP HP HP HP
HP D D D D D D D D

Field Name  | A  Field Marker
-------------|----------------
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3 xx.test    | 2 xx.test
> 4 S\        |
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Exit Report – Do Not Save Report