



Updates!

e-Newsletter from Iatric Systems, Inc.

January, 2008

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1. Message from Senior Management

Changing the MEDITECH World

Frank Fortner, Senior Vice President
Application Development



You may have heard the story of how Apple Chairman Steve Jobs convinced John Sculley to join Apple as their CEO back in the early 80's. As the (then) CEO for PepsiCo, Sculley held a very lucrative, secure position and was naturally reluctant to make the switch. Jobs asked him a simple question that made all the difference, "Do you want to spend the rest of your life selling sugared water or do you want a chance to change the world?" Many years ago, Joel Berman offered me and several others a similar opportunity to affect positive change in the MEDITECH community and today,

we're still making a difference.

For starters, Iatric Systems is the company more hospitals (and vendors) call when they need an [interface](#). We currently have over 6,000 LIVE interfaces in over 500 hospitals and we have interfaced to approximately 450 other vendor software solutions.

Likewise, our clinical software applications have redefined the user experience. [Visual FlowSheet](#) harmonized data from several modules into a single, interactive Windows GUI display. [MobiLab](#) brought a real-time handheld solution to the bedside for specimen collection, resulting in greater patient safety and fewer mislabeled specimens. Our new [Paperless Pharmacy](#) module offers a streamlined method of electronically transmitting orders to the pharmacy (without faxing), solving the age old problem of missing medication orders.

On the non-clinical side, [Visual SmartBoard](#) is increasing reimbursements and improving revenue cycle related workflow in Patient Access, HIM and Patient Financial Services. This month we released the final version of ScriptLink+, our newest dual-language, multi-platform scripting toolkit. We spent thousands of hours developing it. The price? It's free. If this sounds too revolutionary to be true, [here's the proof](#).

Like Apple, Iatric Systems has always been known for innovation and creativity in meeting industry needs. Even with a solid core system like MEDITECH, there will always be technical challenges and unique requirements calling for fresh and specialized solutions. Our goal at Iatric Systems is to meet those challenges head-on and provide the kind of software and services that truly make a difference for our customers.

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2. Iatric Systems at HIMSS'08



Over the past 18 years, Iatric Systems has helped hospitals and health systems worldwide leverage their MEDITECH HIS investment.

At HIMSS, on February 26 - 28, 2008, we'll be celebrating 18 years of proven integration experience with a little fun... your chance to win

\$18,000 instantly at our booth! Visit us during HIMSS at booth #2936 to learn more.

Solutions we will be featuring at HIMSS'08 include:

- **CareContinuity** – Access to patient data during downtimes ****NEW****
- **Clinical Monitor Interfaces** – One tool to manage diverse clinical monitor communications and view them directly from MEDITECH
- **HL7 EasyConnect** – Interface engines simplified
- **MDAccess** – Physician patient results portal
- **Physician Office Integration** – Sending MEDITECH patient data directly into physicians' EMR systems
- **Security Audit Manager** – Enterprise-wide privacy and security auditing

To learn more about HIMSS, or to register to attend, please [visit their website](#). We'll look forward to seeing you at HIMSS!

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3. Revenue Cycle Improvement Tips

Recovery Audit Contract (RAC) and Medicaid Integrity Program (MIP)

Kay Jackson
Financial Marketing Manager



Is your hospital ready? Last year, Centers for Medicare and Medicaid Services (CMS) began retrospectively auditing hospitals' Medicare claims for overpayments and underpayments. The project was named Recovery Audit Contract, or RAC. The first states to feel the pinch of RAC (to the tune of nearly \$250 million in 2007 alone, according to the [Wall Street Journal](#) and CMS figures) have been California, New York and Florida. Hospitals in several other states are slated to be audited this year. All hospitals will be audited by 2010. If you would like a complete listing of RAC's rollout by state, please contact Kay Jackson at KayJ@iatric.com.

Not to be outdone, Medicaid has its equivalent to RAC. The Medicaid Integrity Program (MIP) is now underway. Florida, Mississippi, Texas and Washington will be the first states affected by MIP audits.

[Cont'd on next page](#)

If you're interested in learning more about RAC or MIP, as well as how you can track these audits successfully in MEDITECH using Visual SmartBoard (VSB) technology, please join us during one of our upcoming RAC/MIP webcast presentations:

Webcast Date	Day	Time
February 26th	Tuesday	2:00pm Eastern
February 27th	Wednesday	2:00pm Eastern
March 4th	Tuesday	2:00pm Eastern

To register to attend, simply select a session date, and please be sure to include your **name, phone number and hospital name**. We'll promptly send you registration confirmation and instructions on how to participate. Webcasts are open to staff at any hospital operating the MEDITECH HCIS.

At the annual 2007 American Association of Healthcare Administrative Management (AAHAM) Conference last September, hospitals from CA, NY and FL shared their experiences with RAC, as well as what they believe are the most problematic aspects of the program:

- At the top of their list was the fact that CMS-hired audit companies are paid contingency fees based on the amounts they recoup, whether or not their audit results are ultimately deemed valid.
- Payments must be made by hospitals before appeals are processed.
- Hospitals have had to hire additional staff to handle the time-consuming data gathering process and sheer volume of work associated with the audits.

Some good news... The [American Hospital Association](#) has made its concerns with RAC clear to CMS and Congress, and is currently urging Congress to change compensation for audit companies from contingency fees to set fees.

Other helpful resources...

RAC:

<http://op.bna.com/hl.nsf/r?Open=sfak-79tsfx>

<http://www.cms.hhs.gov/MLNMattersArticles/downloads/SE0469.pdf>

MIP:

<http://www.gao.gov/new.items/d06578t.pdf>

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4. How Do Nurses Remember Pain Management?



Do you struggle with your hospital's **pain management and pain reassessment** process? We often hear patient care providers at hospitals respond "yes" to this question.

Joint Commission's Provision of Care (PC) standard 8.10 requires that "Pain is assessed in all patients". A comprehensive assessment must be conducted for pain if appropriate for the patient's condition. Hospitals must also develop criteria for regular assessment and follow-up on pain in those patients.

If you struggle with this process, now there's a light at the end of the tunnel! Iatric Systems has developed a solution that addresses pain management and pain reassessment, and we are currently in the process of beta testing the system at its first site (MAGIC only at this time). As always, our solution is designed to integrate directly with MEDITECH.

Before we bring the software to general release, we'd like to hear from you! We have put together a simple 5-question survey designed to help us maximize the benefits of our new solution. If you will take the time to respond to the survey, we'll enter you into a drawing to win a \$50 American Express Gift Card. The winner will be drawn on February 29th, notified via e-mail, and announced on our website.

Please select [this link](#) to complete the survey. Thank you in advance for your input! Soon we'll be announcing webcast dates when you can see our new solution in action.

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5. NPR Report Writing Tips

Combining Meditech data with information from a PC file (C/S or Magic)

You may have a need to combine data from a spreadsheet or database with Meditech data. In a recent MUSE presentation we showed a simple example, importing a file of account numbers and using that for record selection.

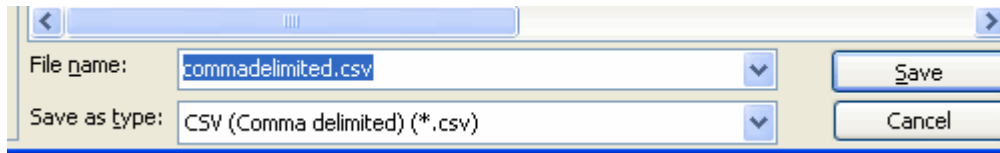
This month, we will show you how to read a comma-delimited file and separate the data into fields based on column headers in the first record, then build an index to make the data available to your report.

Take this example spreadsheet:

	A	B	C	D	E	F
1	Number	Due Date	Acct Number	Name		
2	9755	2/9/2008	V00009894	ZZPOM,TESTING		
3	7931	1/30/2008	V00008797	ZZDESKTOP,RESULTS		
4	3764	2/24/2008	V00006601	ZZPOM,DESKTOP2		
5	5256	3/8/2008	V00011437	ZZJONES,STEVEN		
6	7208	1/30/2008	V00001545	ZZPOM,MARK'S PATIENT		
7	2523	3/18/2008	V00006726	ZZNIMBLE,JOHN		
8	7981	3/9/2008	V00007054	ZZNUR,FOURTY NINE		
9	4487	3/13/2008	V00005959	ZZDESKTOP,STEPHANIE		
10	9989	3/7/2008	V00011536	ZZJONES,MAUREEN		
11	2008	2/18/2008	V00011569	ZZPOM,HOSPICE		
12	1803	2/3/2008	V00005785	ZZCLINICAL REVIEW,TESTING		

We want to parse the file into "Number", "Due Date", and "Acct Number" fields so that we can put the "Number" and "Due Date" on an NPR report with some other Meditech data.

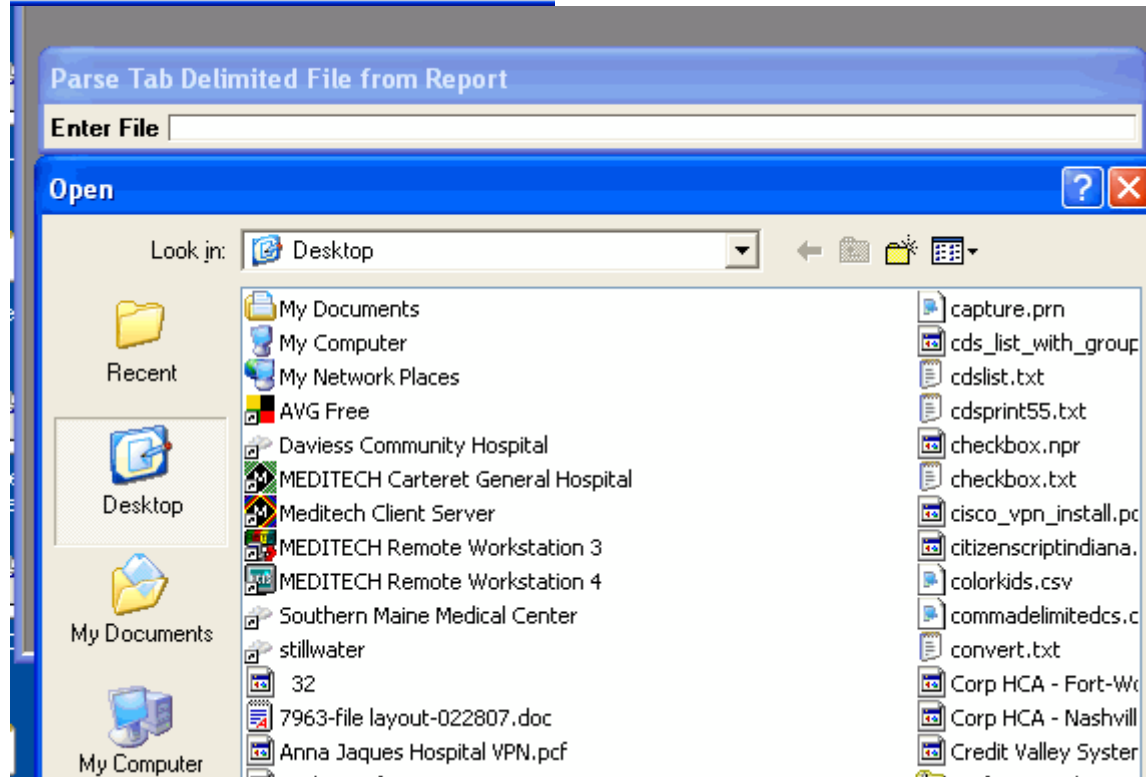
First save the file as comma delimited.



Next, setup your report so that the user is prompted for the path and filename.

To give the user a nice lookup into PC folders, use the Edit Elements routine in Magic or CS to attach an ID program to a free text field for the file to be imported. We call the field xx.file and use the IG operator.

- 5. Run
- 6. Copy
- Macro: 7. Enter/Edit
- Screen: 8. Edit Picture →
- 9. Edit Elements
- Procedure: 10. Edit Data
- Select?



In Magic:

```

A)tributes D)escription?  a
ID=/Z.dos.l ink.l ong(1)
DAT=FREE
ID.ARG=BR
IFE=1
LEN=60
REQ=1
  
```

In C/S:

#	Field Element	A	Edit?
1	c.xx.file	*	A

Enter/Edit Field Attributes - c.xx.file

```

DAT=FREE
ID=/Z.id.win.file(1)
IFE=1
LEN=60
REQ=N
  
```

Note, in C/S any time you rebuild the screen you lose all custom attributes. In Magic, they are usually preserved unless you remove a field. When C/S first got the Edit Elements feature, just a re-translation would delete custom attributes.

Finally we want to read the file and break it into records and fields.

In C/S, the easiest approach is to do a text mode read, automatically breaking the file into records, 1 record per line, and stripping the CR/LF pairs from the end of each line. This limits you to records under 250 or so characters, as you cannot exceed 255 for any magic variable and its value. Then you parse each record into fields, using record 1 to get the field names from the column headers.

The tricky part with a comma delimited file is to avoid breaking at a comma that is within a quoted or "text qualified" string.

Here is what our C/S upload looks like after we have transferred it from the .CSV file to a slash file /DATA with one line per record

```
✓["DATA",1] = Number, Due Date, Acct Number, Name  
✓["DATA",2] = 9755, 2/9/2008, V00000008648, "LANCASTER, GHS"  
✓["DATA",3] = 7931, 1/30/2008, V00000016306, "ED, KATHY"  
✓["DATA",4] = 3764, 2/24/2008, V00000016381, "TEST, BRENDA"  
✓["DATA",5] = 5256, 3/8/2008, V00000012696, "TEST, SCAM TWENTY-FIVE"  
✓["DATA",6] = 7208, 1/30/2008, V00000017001, "TEST, ANTHONY"
```



Comma in field

```
Editing: ADM.PAT.zcus.is.eupdate.parse.file.M.start Mode: NPR CUSTRW SRC  
c.xx.file→PATH,  
@Memory.allocate("")→MY,  
@Memory.load.file(MY,PATH),  
@Memory.beginning(MY),  
DO{@Memory.read.text(MY,240)→LINE 1,  
LINE:05→/DATA[LN+1→LN]},  
""→LN
```

Loop to read file and build temp list in /DATA[rec]

The data is parsed by checking each character in each record, looking for quotes and commas. As you go, you concatenate all non quote, non comma characters into a temp string that gets flushed when you hit the end of a field. You watch for quote, and if you hit one, you keep a hold variable set so that you avoid breaking at any comma within quotes until you hit the next or ending quote.

```

""→LN,
DO(+DATA[LN]→LN 1,
  /DATA[LN]→STRING,
  L(STRING)→LEN,
  0→p→f,
  DO(p<LEN IF(STRING#p=D(34) IF(h ""→h;1→h);
    STRING#p=", "&h @FLUSH.FIELD;
    FIELD_(STRING#p)→FIELD}, p+1→p),
  @FLUSH.FIELD),
;

FLUSH.FIELD
f+1→f,
IF(LN=1 @COLUMN.HEADERS;
  @FILE.FIELDS)

```

Quote set or clear h

comma and not holding - flush field

concatenate non quote, non commas

```

FLUSH.FIELD
f+1→f,
IF(LN=1 @COLUMN.HEADERS;
  @FILE.FIELDS)

COLUMN.HEADERS
FIELD→/COL[f],
""→FIELD

FILE.FIELDS
FIELD→/NEWDATA[LN]F[/COL[f]],
""→FIELD

```

Record 1 - headers

Make list of column headers by field #

File fields by column names from record 1

When we are done, we have a new structure with our data stored by field names. We can loop thru it and build an index by account number and queue the "number" and "due date" fields as piece 0 and piece 1 and then use computed fields in our report to include the data from our file with our Meditech data.

```

BUILD.INDEX
""→LN,
DO(+NEWDATA[LN]→LN 1,
  /NEWDATA[LN]F["Acct Number"]→ACCT,
  Q(/NEWDATA[LN]F["Number"], /NEWDATA[LN]F["Due Date"])→/INDEX[ACCT])

```

Q command You can also use {}

Piece 0

Piece 1

Enter/Edit Field Attributes: xx.number

```

DAT=FREE
JFY=L
LEN=10
VAL=/INDEX[@acct.number]:0

```

```

/["NEWDATA",2,"F","Acct Number"] = V00000008648
/["NEWDATA",2,"F","Due Date"] = 2/9/2008
/["NEWDATA",2,"F","Name"] = LANCASTER,GHS
/["NEWDATA",2,"F","Number"] = 9755
/["NEWDATA",3,"F","Acct Number"] = V00000016306
/["NEWDATA",3,"F","Due Date"] = 1/30/2008
/["NEWDATA",3,"F","Name"] = ED,KATHY
/["NEWDATA",3,"F","Number"] = 7931
/["NEWDATA",4,"F","Acct Number"] = V00000016381

```

```

/["INDEX","V00000005541"] = +7300+2/29/2008
/["INDEX","V00000007897"] = +9921+2/2/2008
/["INDEX","V00000007901"] = +110+2/10/2008
/["INDEX","V00000008648"] = +9755+2/9/2008
/["INDEX","V00000008729"] = +6417+2/12/2008
/["INDEX","V00000010197"] = +9481+3/6/2008
/["INDEX","V00000011045"] = +2626+3/7/2008
/["INDEX","V00000011053"] = +3550+3/18/2008

```

Merged from PC file

From Meditech

Number	Due Date	Acct	Name	Visit Reason
9755	2/9/2008	V00000008648	LANCASTER,GHS	test
7931	1/30/200	V00000016306	ED,KATHY	CP
3764	2/24/200	V00000016381	TEST,BRENDA	TESTING
5256	3/8/2008	V00000012696	TEST,SCAN TWENTY-FIVE	CHEST PAIN
7208	1/30/200	V00000017001	TEST,ANTHONY	TESTING
2523	3/18/200	V00000018325	TEST,JOHN	
7981	3/9/2008	V00000019763	MEDSURG,ALICE	TESTING
4487	3/13/200	V00000017361	MEDREC,BRENDA	TESTING

The magic report uses a bit more coding to upload the data as fixed length lines in "Image" mode, then parses for both the field and the record breaks. This has the advantage of allowing you to upload larger records.

The example reports for both platforms have been uploaded to our report library as ADM.PAT.zcus.is.eupdate.parse.file.

You can find additional NPR Tips on our website at <http://www.iatric.com/information/npr-tips.asp>, as well as information about our [on-site NPR Report Writer Training](#) and [NPR Report Writing Services](#).

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6. Newsletter Sign-Up/Contact Us

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