

Healthcare Almanac

Provider Almanac
CR Data Conversion
10-15-2011

Data Conversion Summary

On October 12, 2011, processing started for Hospital, SNF, HHA, ESRD and Hospice data from CMS for June 30, 2011. All of the data was downloaded and processed on October 12-13 after the data became available on August 20, 2011. The internal CMS files are all dated 8-20-2011.

The cost report processing is one month behind schedule. I am currently working on the Software Upgrade project. The CR processing is being done in conjunction with the CR report upgrades. I intend to do the CR processing as quickly as possible and defer any problems to the December 2011 processing. The new Cost Report databases will be used for testing the software upgrades and review/test the new Cost Report data at the same time.

The processing will consist of downloading the 2006, 2007, 2008, 2009, 2010 and 2011 files from the CMS.gov website for each provider. The databases will be created for 2007, 2008, 2009 and 2010. The only software change for this processing cycle will be to add the 2011 CMS file for importing. The years created will remain the same as Dec, 2010. The database years 2007 and 2008 are 98%+ for hospitals. The database year 2009 appears to be 90%+ percent complete and 2010 appears to be 50% percent complete for Hospitals.

On October 12 (Wed), 2011, I created the new Cost Report Directories on server HServer01 and started the CR Status Report. The Hospital CMS data was downloaded to the directories. The Hospital data was unzipped. The FoxPro software was copied into the directory from the June, 2011 processing. The first stage of processing to extract the headers, text data and numeric data was completed. A decision was made based on record counts, to extract CMS years 2006 to 2011 (6 years) and create calendar year databases for 2007 to 2010. The numeric worktable reached 1.993 gig for extracting 6 years. The year 2011 has 5 cost reports for partial years. In December 2011, year 2007 will be dropped and 2011 will be added. Control totals were printed and totals appear to be correct. Hospital processing was started.

On October 13 (Thur), 2011, I finished processing the Hospital data. Control totals were checked, reports were printed and everything appears to be working. I did a review of the missing lines for Hospital Cost Reports. Overall, the number of missing lines is small. I will fix the lines in the next update. Next, I started processing SNF. During the changes to files to import, I noticed the import numeric data referred to the 2009JUN numeric data. Several months ago, I noticed some SNF cost reports appeared wrong. I believe 2,208 SNF cost reports may have been missing numeric data. I "assumed" the cost reports were not filed. In the December 2010 processing, I added worksheet controls and a status reports specifically to identify this type of problem. I need to add more auditing steps to ensure the numeric and text data are correctly processed. Currently most controls focus on the header records and worksheet integrity counts (record counts

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at a worksheet level). I need to generate a report that shows cost reports without numeric or text data. Also, the SNF numeric worktable reached 1.769 gig in the numeric extract. I also did a quick missing line review and a small number of lines are missing. I completed the processing for SNF. Next, I started the processing for HHA, ESRD and Hospice. All three providers were processed without any problems. A review of the missing lines showed a few line descriptions were missing. The CR Conversion Status report was updated for today's processing and the record counts of the five providers. At 8:45PM, I started a review of the CR processing and everything appears to be working. At 9:15PM, the first of the four databases was uploaded to HServer01. Database CR_2010 took 2:37 minutes to upload.

On October 14(Fri), 2011, I continued uploading the Cost Report databases and finished processing ESRD and Hospice. At this point, all files have been down loaded and control totals have been checked.

At this point, a general review of the processing must be completed but everything appears to be correct. If any additional processing is required, this status report will be updated. This completes CR processing and deployment will be done after the Software Upgrade project is complete.

Header Table Update (Updated 10-03-2011)

The header table has the description of provider type, control desc, rural, utilization and county name. This code has been upgraded in the DEC 2009 update and DEC 2010 update. A lot of work was done in the Summary Reports to fix missing information. However, problems still remain. The beds field was changed to a count field that is beds, dialysis units, patients, etc that is different for each provider. The Fiscal Intermediary name was not decoded because the field can be decoded in the selection list. The MSA code was not included and has been dropped from the POS data.

In the DEC 2011 update, the MSA code, description and an MSA selection list will be developed. I currently have purchased a Zip Code list with MSA's that will be used for the information.

Overall, this header update task is nearly complete but there will be more problems in the future. I need to get the system into the hands of users to see if this task is complete.

Hospital Cost Reports Header – JUN 2011 (10-13-2011)

CMS Year	Fiscal Year End						
	2005	2006	2007	2008	2009	2010	2011
2006 6229	36	3558	2635				
2007 6178		22	3526	2630			
2008 6188			15	3542	2631		
2009 6159				22	3523	2614	

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2010	2863			18	2839	6
2011	5				5	
<u>Total – Jun 2011</u>		6176	6194	6172	5458	
<u>Total – Dec 2010</u>		6175	6192	6140	1947	
<u>Total – June 2010</u>		6184	6174	6177	5512	
<u>Total – Dec 2009</u>		6184	6168	6125	2053	

Hospital Cost Reports Header – DEC 2010 (02-04-2011)

CMS	Fiscal Year End					
Year	2005	2006	2007	2008	2009	2010
2006	6229	36	3558	2635		
2007	6177		22	3525	2630	
2008	6181			15	3540	2626
2009	5428				22	3498
2010	55					16
<u>Total – Dec 2010</u>			6175	6192	6140	1947
<u>Total – June 2010</u>			6184	6174	6177	5512
<u>Total – Dec 2009</u>			6184	6168	6125	2053
<u>Total – June 2009</u>			6180	6162	5292	

Hospital Cost Reports Header – JUN 2010 (09-04-2010)

CMS	Fiscal Year End						
Year	2003	2004	2005	2006	2007	2008	2009
2005	6246	36	3606	2604			
2006	6229		36	3558	2635		
2007	6176			22	3524	2630	
2008	6159				15	3528	2616
2009	2909					19	2889
2010	7						7
<u>Total – June 2010</u>				6184	6174	6177	5512
<u>Total – Dec 2009</u>				6184	6168	6125	2053
<u>Total – June 2009</u>			6282	6180	6162	5292	

Hospital Cost Reports Header – DEC 2009 (02-23-2010)

CMS	Fiscal Year End						
Year	2003	2004	2005	2006	2007	2008	2009
2005	6247	36	3606	2604			
2006	6230		36	3558	2635		
2007	6147			22	3519	2605	
2008	5526				14	3501	2010
2009	63					19	43

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Total – Dec 2009	6184	6168	6125	2053
Total – June 2009	6282	6180	6162	5292

SNF Cost Reports Header – JUN 2011 (10-13-2011)

CMS		Fiscal Year End						
Year		2005	2006	2007	2008	2009	2010	2011
2006	14385	99	11521	2765				
2007	14402		147	11717	2538			
2008	14622			234	11687	2701		
2009	14314				78	11579	2657	
2010	9193					81	9106	6
2011	44						44	
Total – Jun 2011				14716	14303	14361	11807	6
Total – Dec 2010				14712	14301	14280	2139	
Total – Jun 2010			14421	14708	14286	12091		
Total – Mar 2010			14421	14704	14250	4042		

SNF Cost Reports Header – DEC 2010 (02-04-2011)

CMS		Fiscal Year End					
Year		2005	2006	2007	2008	2009	2010
2006	14384	99	11521	2764			
2007	14400		147	11715	2538		
2008	14616			233	11685	2698	
2009	13614				78	11512	2024
2010	185					70	115
Total – Dec 2010				14712	14301	14280	2139
Total – Jun 2010			14421	14708	14286	12091	
Total – Dec 2009			14422	14701	14204	2434	
Total – Jun 2009			14409	14661	11319		

SNF Cost Reports Header – JUN 2010 (09-04-2010)

CMS		Fiscal Year End							
Year		2003	2004	2005	2006	2007	2008	2009	2010
2005	14254		114	11386	2754				
2006	14383			99	11520	2764			
2007	14395				147	11711	2537		
2008	14591					233	11673	2685	
2009	9452						76	9367	

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2010	39							39
Total – Jun 2010		11485	14421	14708	14286	12091		
Total – Dec 2009		11483	14422	14701	14204	2434		
Total – Jun 2009		14217	14409	14661	11319			

SNF Cost Reports Header – DEC 2009 (02-23-2010)

CMS	Fiscal Year End							
Year	2003	2004	2005	2006	2007	2008	2009	Error
2005	14252	114	11384	2754				
2006	14384		99	11521	2764			
2007	14387			147	11705	2535		
2008	14099				232	11595	2272	
2009	236					74	162	
Total – Dec 2009			11483	14422	14701	14204	2434	
Total – Jun 2009			14217	14409	14661	11319		

HHA Cost Reports Header – JUN 2011 (10-13-2011)

CMS	Fiscal Year End							
Year	2005	2006	2007	2008	2009	2010	2011	
2006	7101	122	5871	1108				
2007	7606		134	6356	1116			
2008	8137			88	6955	1094		
2009	9148				159	7887	1102	
2010	5755					178	5575	
2011	27						27	
Total – Jun 2011		122	6005	7552	8230	9159	6704	
Total – Dec 2010				7550	8224	9112	762	
Total – June 2010			7066	7544	8202	4683	2	
Total – Dec 2009			7065	7540	8174	870		
Total – Jun 2009			7062	7519	6010			

HHA Cost Reports Header - DEC 2010 (02-04-2011)

CMS	Fiscal Year End					
Year	2005	2006	2007	2008	2009	2010
2006	7099	122	5870	1107		
2007	7603		134	6355	1114	
2008	8131			88	6951	1092
2009	8752				159	7850
2010	189					170
Total – Dec 2010				7550	8224	9112
Total – Jun 2010				7550	8224	9112

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Total – June 2010	7066	7544	8202	4683	2
Total – Dec 2009	7065	7540	8174	870	
Total – Jun 2009	7062	7519	6010		

HHA Cost Reports Header - JUN 2010 (09-04-2010)

CMS		Fiscal Year End							
Year		2003	2004	2005	2006	2007	2008	2009	2010
2005	6326		120	5138	1068				
2006	7093			122	5864	1107			
2007	7599				134	6351	1114		
2008	8107					86	6932	1089	
2009	3740						153	3582	2
2010	12							12	
Total – June 2010				5260	7066	7544	8202	4683	2
Total – Dec 2009				6323	7065	7540	8174	870	
Total – Jun 2009				6321	7062	7519	6010		

HHA Cost Reports Header – DEC 2009 (02-23-2010)

CMS		Fiscal Year End						
Year		2003	2004	2005	2006	2007	2008	2009
2004	5665	89	4513	1063				
2005	6325		120	5138	1068			
2006	7090			122	5863	1107		
2007	7576				134	6348	1114	
2008	4940					85	6911	826
2009	45						149	44
Total – Dec 2009				6323	7065	7540	8174	870
Total – Jun 2009				6321	7062	7519	6010	

ESRD Cost Reports Header – JUN 2011 (10-13-2011)

CMS		Fiscal Year End						
Year		2005	2006	2007	2008	2009	2010	
2006	4330		4330					
2007	4384			4384				
2008	4663				4663			
2009	4869					4869		
2010	4205						4205	
Total – Jun 2011			4330	4384	4663	4869	4205	
Total – Dec 2010			4325	4384	4609	4831	104	
Total – June 2010			4323	4382	4522	4408		
Total – Dec 2009			4321	4372	4488	101		

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Total – Jun 2009 4321 4366 2823

ESRD Cost Reports Header – DEC 2010 (2-04-2011)

CMS	Fiscal Year End					
Year	2005	2006	2007	2008	2009	2010
2006	4325	4325				
2007	4384		4384			
2008	4609			4609		
2009	4831				4831	
2010	104					104
Total – Dec 2010		4325	4384	4609	4831	104
Total – June 2010		4323	4382	4522	4408	
Total – Dec 2009		4321	4372	4488	101	
Total – Jun 2009		4321	4366	2823		

ESRD Cost Reports Header – JUN 2010 (9-04-2010)

CMS	Fiscal Year End							
Year	2003	2004	2005	2006	2007	2008	2009	2010
2005	4148		4148					
2006	4323			4323				
2007	4382				4382			
2008	4522					4497		
2009	4408						4408	
2010	1							1
Total – June 2010			4148	4323	4382	4522	4408	1
Total – Dec 2009			4148	4321	4372	4488	101	
Total – Jun 2009		3888	4179	4321	4366	2823		

ESRD Cost Reports Header – DEC 2009 (2-24-2010)

CMS	Fiscal Year End						
Year	2003	2004	2005	2006	2007	2008	2009
2005	4148		4148				
2006	4321			4321			
2007	4372				4372		
2008	4488					4488	
2009	101						101
Total – Dec 2009			4148	4321	4372	4488	101
Total – Jun 2009		3888	4179	4321	4366	2823	

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Hospice Cost Reports Conversion – JUN 2011 (10-13-2011)

CMS	Fiscal Year End						
Year	2004	2005	2006	2007	2008	2009	2010
2006	1865	53	1606	206			
2007	2051		23	1804	224		
2008	2190			26	1935	229	
2009	2274				52	1987	235
2010	1663					16	1647
2011	8						8
Total – Jun 2011				2036	2211	2232	1890
Total – Dec 2010				2035	2211	2224	182
Total – Jun 2010			1820	2034	2210	1425	
Total – Dec 2009			1820	2033	2207	224	
Total – Jun 2009			1819	2025	1855		

Hospice Cost Reports Conversion – DEC 2010 (02-04-2011)

CMS	Fiscal Year End						
Year	2004	2005	2006	2007	2008	2009	2010
2006	1865	53	1606	206			
2007	2050		23	1803	224		
2008	2188			26	1935	227	
2009	2197				52	1982	163
2010	34					15	19
Total – Dec 2010				2035	2211	2224	182
Total – Jun 2010			1820	2034	2210	1425	
Total – Dec 2009			1820	2033	2207	224	
Total – Jun 2009			1819	2025	1855		

Hospice Cost Reports Conversion – JUN 2010 (09-04-2010)

CMS	Fiscal Year End							
Year	2003	2004	2005	2006	2007	2008	2009	2010
2005	1663	28	1444	191				
2006	1865		53	1606	206			
2007	2049			23	1802	224		
2008	2186				26	1934	226	
2009	1247					52	1194	1
2010	5							4
Total – Jun 2010			1497	1820	2034	2210	1425	

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Total – Dec 2009	1497	1820	2033	2207	224
Total – Jun 2009	1681	1819	2025	1855	

Hospice Cost Reports Conversion – DEC 2009 (02-24-2010)

CMS Year	Fiscal Year End						
	2003	2004	2005	2006	2007	2008	2009
2005	1663	28	1444	191			
2006	1865		53	1606	206		
2007	2048			23	1801	224	
2008	2169				26	1933	210
2009	64					50	14
Total – Dec 2009			1497	1820	2033	2207	224
Total – Jun 2009			1681	1819	2025	1855	

Current Status before 06-30-2011

- Currently, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009 and 2010 for Hospital, SNF, HHA, ESRD and Hospice have been converted and updated to the website.
- A book of sample reports has been created and reviewed.
- Sample cost reports were updated to the website in April 2010 to show new features and for marketing presentation. The five year compare report is available and shows cost report history.
- All cost reports use the calendar year end for easy review by users.
- The conversion software was upgraded to Visual FoxPro Version 9 “SP2”.
- Overall, conversion software is in good shape.
- All conversion work is backed up to Hserver01, DVD and offsite.

Basic Conversion Plan

1. Determine the input years that will be downloaded and database years that will be created. Setup this Conversion Status Report.
2. Download all the data from www.CMS.gov for each provider and the supporting worksheets. Unzip the data. Print the CMS record counts
3. Copy the FoxPro conversion programs into the current directory. Make the required changes for new data. Add new years and delete old years in each of the 11 to 13 programs that create tables. In the three extract programs, change the names and years of the CSV files to be imported. In the build table programs, create and delete the code for the databases.

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4. Process the unzipped CSV files using the FoxPro programs. Print the DBF files as HTML output for the documentation of the record counts. Check the header record count. Update the Cost Report Status report for the header counts.
5. In the status report, record a brief log of the processing events. Check the processing for missing line titles and update the line titles for any new forms, lines or columns.
6. Use SQL Server Management Studio to create new blank databases with the correct parameters using the SQL scripts to CR_Create_Databases for each year.
7. Using the Spectral Core software, upload the DBF files to SQL Server. In the future, try to use SQL SSIS. I tried this in May 2010 and the first problem is to create the tables. Spectral Core does this automatically.
8. Run the SQL indexing scripts and SQL control scripts. Then review database options to ensure databases are correct.
9. With the Cost Report databases complete, the REF_ALL database can be created. Run the script SQL_Summary_Create_Database to create the Database. Run the script to create the State, County and Carriers. Run the REF_ALL scripts to create the information for each provider and year.
10. Create a new SQL script to setup a new Demo user. The current user is Provider2011A. Setup the new login and run the scripts for any client access. This will be a big job in the future. This completes the first phase of processing.
11. Update the records counts in the software for the automatic sync of the user database. If a new year is added, make the appropriate software changes.
12. Run/Test Provider Almanac and print new reports for review. The new selection lists should be automatically created for each year.
13. Create the reports for the website for Florida, Texas, New York, California and the largest 250 providers. Review these reports. Make any required changes to the line files, update the line files and reload the DBF files to SQL Server on Hserver01 if necessary.
14. Using BAT files and SQL files, detach, copy and attach the new Cost Report and REF_ALL databases. On Hserver01 in the /Hdatabases directory, run the Detach_Databases script. Then copy the databases to /Hdatabases_detached. Then run the Attach_Databases script. In the /Hdatabases_Detached, run the BAT file for Winzip_Databases_20100915.bat file to zip each database. Then in the Hdatabases_Zipped directory, run the Unzip_Databases_20100915.bat file. In this process, insert a new password in the Zip and Unzip BAT files to protect the files on the website.
15. In the HDatabases_Zipped, make a copy of the detached zipped databases. Copy the file to Develop02, unzip and attach to SQLEXPRESS.
16. Create a backup on the M: Backup drive of the C:/CostReports/2010JUN directory.
17. Delete the large work files (2 gig limit) and make an offsite backup on DVD of the c:\costreports\2010JUN directory, the CR_200X Directories and programs and SQL_SCRIPT.

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18. Finish this memo and file in the Cost Reports Manual and Project Manual.
19. Deploy the databases to the Website and Hremote01.
20. Test the internet connection by running a small set of reports for CR and REF.
21. Announce the update by email and update the website content.
22. If an error is discovered in the data, write an SQL script to fix the error. Run the script on Hremote01, Hserver01 and update the website from Hserver01.

Conversion Goals (updated)

- Develop a simple way to convert the CMS data to SQL tables. (Visual Foxpro)
- Keep final SQL databases under 4 gigabytes in size. The new SQL Server Express R2 release has a 10gig limit.
- Create meta data tables for each year of data.
 - Worksheet Description Table
 - Worksheet Part Description Table
 - Worksheet Type Description Table
 - Worksheet Titles Table (not used)
 - Worksheet Columns Table
 - Worksheet Line Description Table
 - Worksheet Cost Center Line and Column Description Table
 - Worksheet Override Table
- Provide some kind of control count of information. The meta tables contain line counts from the text and numeric tables.
- Use the provider names and information directly from the worksheet input for name, address, city, state, zip, beds, county, etc.
- Store data in a secure location (MyBook) and backup data to a remote location.
- Create procedures that a technically literate person can use to create updated tables. (This document.)
- Create a compare report that shows 4-5 years of data.
- Show the number of days of each cost report.
- Show the cost center coding for the detail line items. The line type field has the cost center.
- Show the numeric fields in the correct format. The formats are no decimal like days, 6 decimal for ratios, 2 decimal for percents.
- ~~Create sample report in RPT format for the website. Upgrade the website to use the Crystal Reports viewer to show the whole cost report.~~
- ~~Create sample reports in HTML format for the website. The reference reports for each worksheet A, B, C, D, E, G, H and S.~~
- Create sample reports in PDF format for the website.
- Use the cost report data to create a profile report to show summary information for providers. Show simple provider demographic information, summary income statement, summary balance sheet, statistical information like FTEs and beds and KPIs. This report is shown in PDF format by state.

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- Use the cost report data to create a series of profile reports that can be emailed to prospects and clients as part of a marketing campaign.
- Use the cost report data to create a KPI report that can be emailed to prospects and clients.
- Use the cost report data to create a pivot table and excel spreadsheet of Profile and KPI data.

Data Conversion

File Structure

On Hserver01, the CR data is stored in a directory named CostReports. In this directory is a directory for each download period (2007DEC). This structure is further divided into Hospital, SNF, HHA, ESRD and Hospice.

- CostReports
 - Hospital
 - 2004OLD
 - This is used for processing CR_2001, CR_2002 and CR_2003.
 - 2007DEC
 - all downloaded zip files by year
 - all expanded files for header, text and numeric.
 - All Visual Foxpro programs
 - 2010DEC
 - This is used for processing CR_2007 to CR_2010. The input files are the CMS years 2006 to 2010.
 - SNF ...
 - CR_2001 to CR_2010
 - All output file for upload by Spectral Core to Hserver01
 - SQLScripts – Scripts to create database, indexes and drop indexes.

Visual FoxPro Data Conversion Software

Visual FoxPro is used to process all CMS Cost Report data. The software takes the raw CSV files and creates 11-13 DBF files by year for uploading to SQL Server. The Foxpro software consists of the main form with buttons to control the processing. The buttons are in four groups.

1. Import data form CSV files into work files,
2. Create cost center coding files for Hospital and SNF.
3. Extract header, text and numeric tables by year
4. Build the description tables by year.

Software Setup

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Copy all the PRG, SCT and PJT files to the new directory. No DBF files are required. Change the software to adjust for the new year.

Software Operation

The next 15 step create the DBF files. Every step ends with a browse screen to review the output. You should review the browse screens for problems.

1. **Import Header** – this program reads up to 6 unzipped CVS file and appends the files to a work table. This work table has the CMS data and new fields for name, address, city, state, county, descriptions and control counts. During the append, the CMS_File is updated to show which year the header came from. The FY Begin and FY End fields are created in date format and total worksheet days are created. The CMSYEAR field is created based on the calculation of the dates. Some providers have changes in FYE due to ownership changes which causes two cost reports in the same year. Buttons are available to see the header record counts based on Fiscal Year Beginning and End. Hospital data that exceeds 2 gigs must be processed in two groups. A special group for prior to 2004 has been setup for special processing.
2. **Import Text** – this program reads the unzipped CVS files and appends the files to a work table. The header file is updated with name and address information from the S2 Worksheet. The work files for the description tables are also created. These work files reduce the processing time for the description tables.
3. **Import Numeric** – This program reads the unzipped CVS files and appends the files to a work table. The work files for the description tables are also created. The control table is also updated for numeric counts.
4. **Update Beds and Types** – This is a program to process the numeric work table to update information in the header table. The includes beds, charges, revenue and profit.
5. **Build CC Lines.** This creates the cost center to worksheet line conversion for Hospitals and SNFs.
6. **Build CC Columns.** This creates the cost center to worksheet column conversion for Hospitals and SNFs.
7. **Build Control Files**– Creates the control files based on header files.
8. **Build Headers Files**– Creates the header files based on CMS_YEAR.
9. **Build Text Files** – Creates the text files based on the Header files by year. The ws_line, ws_flag and ws_column are added to the file and updated by the CC_Lines and CC_Columns tables. This is only done for Hospital and SNF.
10. **Build Numeric Files** – Creates the numeric files based on the Header files by year. The ws_Line and ws_flag are updated by the cc_lines file. The ws_column is update by the cc_column table.
11. **Build Worksheet Description** – Build the 6 year worksheet description file.
12. **Build Worksheet Part Description** – Build the 6 year part description file.
13. **Build Worksheet Type Description** – Build the 6 year type description file.
14. **Build Title Description** – Build the 6 year title description file.

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15. **Build Columns Description** – Build the 6 year column description file.
16. **Build Lines Description** – Build the 6 year line description file. Build the 6 year ws_line description. The hospital line file has over 16,000 lines. This is every unique line on all the worksheets. The WS_Line file is used for selecting lines for the Analysis, Custom and Compare reports. The only lines in this report are the lines on the worksheets. WS_Lines file has 2,040 lines.
17. **Build Override File** – This file is manually updated to handle special column and line description.

Upload FoxPro DBFs to SQL Server

1. Start up SQL Server Management Studio and go to the scripts in the c:\CostReports\SQL_Scripts. These scripts consist of a Create Database, Create Indexes, Drop Indexes and Create Controls.
2. Use the Create Controls and process the script. This script updates the SQL control counts in the control tables and displays a list of any worksheets that are out of balance.
3. Use the Create Database script and change the year to the current year. Execute the script. All the database options should be set correctly.
4. Use Spectral Core Conversion Utility and start a session to upload the Foxpro DBF to SQL Server. Follow the instructions on the screen. In the future, this utility will be replaced by SSIS.
5. After the DBFs are uploaded, execute the SQL Script for Create Indexes. This concludes the conversion.

Database Deployment Checklist

The process for Cost Reports data conversion must be complete. The next step is the Database Checklist used for deployment. The checklist is in the Deployment Manual. This is a summary of the tasks.

1. Make a Backup of the Cost Reports directory to the “MyBook” backup external drive.
2. Make Backup DVDs of the Cost Report/Hospital/2009DEC, Cost/Report/SNF/2009DEC and HHA, ESRD and Hospice directory and send to a remote location.
3. My current practice is to put all the papers from the conversion in the current books and store the old work papers in a vanilla pocket folder.
4. Add the report samples to the Website.
5. Complete the Database Checklist for moving the databases to DVD, Hremote01, Hremote02, Develop01, Hsales01 and Hsales02.
6. Announce the conversion and the availability of data.

CR Header Table Documentation

The Cost Report data consists of three files; Header, Numeric and Text. The Header file contains the report ID to Provider link. The Numeric and Text tables contain the report

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ID and the actual numeric and text line item information. The header tables are different for each provider. The documentation for each provider follows for the additional fields added to each header table.

Hospital

FY_Begin – converted to a date type from the FT_begin_dt in the header.

FY_End – converted to a date type from the FT_end_dt in the header.

FY_Days – number of days calculated from FY_Begin and FY_End.

FY_Sdesc – 10 character description of the Cost Report status based on the prt_status field in the header.

CMSFILE – the year of the CMS file.

CALYEAR – the year of the FY_End field

PName – The 40 character provider name taken from the text file on Worksheet S2 Line 002 Column 01

Address – The 40 character provider address taken from the text file on Worksheet S@ Line 001 Column 01.

Pcity – The 28 character provider address taken from the text file on Worksheet S2 line 00101 Column 01.

PState – The 2 character provider states taken from the text file on Worksheet S2 line 00101 Column 02.

Pzipcode – The 5 character provider zipcode taken from the text file on Worksheet S2 line 00101 Column 03.

Pcounty – The 28 character provider county taken from the text file on Worksheet S2 line 00101 Column 04.

Ptype – The 1 character value taken from the numeric file on Worksheet S2 line 01900 Column 01.

Ptypedesc – The 25 character description created in the conversion software based on ptype.

PRural – The 1 character answer taken from the text file on Worksheet S2 line 02100 Column 01.

PRuraldesc – The 10 character ‘Urban’ or ‘Rural’ based on the prural field.

PUtildesc – The 10 character description of the util_cd field in the header.

PCntldesc – The 25 character description of the prov_cntl field in the header.

Pbeds – The numeric value of beds from the S3 part 1 line 001 column 01 in the numeric table.

Pcharges – The numeric value of charges from G3 line 001 column 01 in the numeric table.

Prevenue – The numeric value of revenue from G3 line 003 column 01 in the numeric table.

Pprofit – The numeric value of charges from G3 line 031 column 01 in the numeric table.

DBF_T_ct – the numeric count of text records for a worksheet. The count is created by the text import software.

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DBF_T_drop – the numeric count of text records dropped by the text import software. The records with name, address, city, state, etc are dropped to save space.

DBF_N_ct – The numeric count of numeric records for a worksheet. The count is created by the numeric import software.

DBF_T_Tot – the net total of text records kept and dropped that can be balanced to the total text records.

DBF_N_Tot – the total numeric records that can be balance to the total numeric records.

SQL_X_xxx – there are four fields used to show the count of records from the SQL server after the DBF records have been imported into the SQL server. An SQL script is used to create the count fields. Any difference in counts is displayed by the script.

SNF - Skilled Nursing Facility

All the fields are the same except for the following changes.

Ptype and Ptypedesc are not used and should be blank.

Pcharges contains the Prevenue information. No line exists for contractual allowances.

Pname, PAddress, Pcity, Pstate, Pzipcode and PCounty are obtained from different locations in the text file but the information is the same.

HHA - Home Health Association

All the fields are the same except for the following changes.

Ptype and Ptypedesc are not used and should be blank.

Prural and Pruraldesc are not used and no questions exist for the answer.

Pname, PAddress, Pcity, Pstate, Pzipcode and County are obtained from different locations in the text file but the information is the same.

PCharges, PRevenue and PProfit are obtained from Worksheet F-1.

PBeds is not available.

ESRD - End Stage Renal Dialysis

All the fields are the same except for the following changes.

Ptype and Ptypedesc are not used and should be blank.

Prural and Pruraldesc are not used and no questions exist for the answer.

Pname, PAddress, Pcity, Pstate, Pzipcode and Pcounty are obtained from different locations in the text file but the information is the same.

Pcounty is not available from the Worksheet.

PCharges and PRevenue are the Medicare Payments from Worksheet D.

PBeds is the Dialysis Units.

Hospice

All the fields are the same except for the following changes.

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Ptype and Ptypedesc are not used and should be blank.
Prural and Pruraldesc are not used and no questions exist for the answer.
Pname, PAddress, Pcity, Pstate, Pzipcode and Pcounty are obtained from different locations in the text file but the information is the same.
PCharges and PRevenue are the Revenue from the G2 worksheet.
Pprofit is from the G2 worksheet on line 16.
Pbeds is not updated.

Future Topics

FoxPro Software

Microsoft is getting rid of DBF files and pushing the adoption of .Net and SQL. This is the right thing to do. My future path from FoxPro is either Access or SQL Server Integration Services. My choice will be SSIS. This will require a lot of redesign and rewriting. I will start following SSIS and do some limited data conversions for NPI data. I have purchased the documentation for SSIS and training videos (LDN) but this conversion will be delayed for as long as possible.

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