

CRSP/COMPUSTAT RELEASE NOTES

JULY 2017 ANNUAL UPDATE

ABOUT THE JULY 2017 CRSP/COMPUSTAT MERGED DATABASE

The cut date for these release notes is 20170709. This shipment includes the following version of the CRSP/Compustat Merged Database:

- CMZ20170707– the CCM format database using Compustat’s Xpressfeed delivery.

DATABASE CHARACTERISTICS

The following table summarizes general characteristics of the CCM database.

ATTRIBUTE	CCM FORMAT DATABASE
Source	Compustat Xpressfeed
Volume Label	CMZyyyyymm
Size	10.61 GB
Delivery	MOVEit Cloud
CRSPAccess version	3.22 and higher – ts_print ccm_print
CRSPSift Version (Windows only)	Yes – all currently supported versions.
SASEXCCM Engine	Version 9.3 (Early Adopters)
C	Yes – CA3.22 and higher
Number of Data Items	Over 4000 quarterly & annual data items

PROGRAMMERS

C-programming is supported with all CRSPAccess versions. C sample programs are included for use with the Xpressfeed data.

FORTRAN-95 continues to be supported in CRSPAccess. Information about usage are available in the CRSPAccess Utilities and Program Libraries Release Notes and the Programming Guide, which can be accessed online at: <http://www.crsp.ChicagoBooth.edu/documentation>.

A SAS Engine that supports the CCM data was released to early adopters in SAS Version 9.3. Since their first maintenance release of SAS version 9.40, the SASEXCCM engine is in full production. The most current ETS release in the field, ETS 13.1 is needed to use the engine. Note that the original SASECRSP engine is still in the field but does not have support for the CCM database.

PARAMETERS

CMZ ANNUAL	
Total Compustat Records	47332
Total GVKEY Companies	45134
Total GVKEYX Indexes	2198
Total GVKEY/IID Securities	57741
Total CRSP Securities Linked	28224
Total GVKEYs in Link	45092
Total Link Records	100614
Total Link Records with a Link to CRSP	32763
Database Size	10.61GB

CALENDARS

The CCM database utilizes the CRSP stock calendars to align properly with CRSP data. Data in the CRSP daily Stock (and Indexes) file use daily and annual calendars. Data in the monthly files use monthly, quarterly and annual calendars.

CALENDAR	DATE RANGE	DATE INDEX RANGE
Daily trading calendar	19251231-20170707	1-24168
Monthly trading calendar	19251231-20211231	1-1153
Annual trading calendar	19251231-20181229	1-94
Quarterly trading calendar	19251231-20181229	1-373
Semi-Annual trading calendar	19251231-20181229	1-187
Weekly trading calendar	19260102-20170707	1-4775

NEW DATA ITEMS

Listed in the table below are new data items and new keysets for existing data items that have been added this month.

ITEM MNEMONIC	ITEM NAME	KEYSET	KEYSET_TAG	DESCRIPTION
BILLEXCEQ_DC	Billings in Excess of Cost and Earnings Data Code	1	STD	Industrial Format, Consolidated Information, Standardized Presentation
CEIEXBILLQ_DC	Cost and Earnings in Excess of Billings Data Code	1	STD	Industrial Format, Consolidated Information, Standardized Presentation
CDBT_DC	Cash and Due from Banks - Total Data Code	2100	BSTD	Bank Format, Consolidated Information, Standardized Presentation
CFO_DC	Commissions and Fees - Other Data Code	15	FSFO	Financial Services Format, Pro-Forma Reporting, Standardized Presentation
EBIT_DC	Earnings Before Interest and Taxes Data Code	1	STD	Industrial Format, Consolidated Information, Standardized Presentation
FATE_DC	Property, Plant, and Equipment / Machinery and Equipment at Cost Data Code	4	FS	Financial Services Format, Consolidated Information, Standardized Presentation
FFOQ_DC	Funds From Operations (REIT) Data Code	5	PFO	Industrial Format, Pro Forma Reporting, Standardized Presentation
FFOSA_DC	Funds From Operations (REIT) Data Code	5	PFO	Industrial Format, Pro Forma Reporting, Standardized Presentation
FFOY_DC	Funds From Operations (REIT) Data Code	5	PFO	Industrial Format, Pro Forma Reporting, Standardized Presentation
GDWLIA_DC	Impairments of Goodwill After-tax Data Code	2100	BSTD	Bank Format, Consolidated Information, Standardized Presentation
GDWLID_DC	Impairments of Goodwill Diluted EPS Effect Data Code	2100	BSTD	Bank Format, Consolidated Information, Standardized Presentation
GDWLEPS_DC	Impairments of Goodwill Basic EPS Effect Data Code	2100	BSTD	Bank Format, Consolidated Information, Standardized Presentation
GDWLIP_DC	Impairments of Goodwill Pretax Data Code	2100	BSTD	Bank Format, Consolidated Information, Standardized Presentation
MMIMP	Impairment of Mineral Properties	1	STD	Industrial Format, Consolidated Information, Standardized Presentation
MMIMP_DC	Impairment of Mineral Properties Data Code	1	STD	Industrial Format, Consolidated Information, Standardized Presentation
MMIMP_FN	Impairment of Mineral Properties Footnote	1	STD	Industrial Format, Consolidated Information, Standardized Presentation
MMIMPQ	Impairment of Mineral Properties	1	STD	Industrial Format, Consolidated Information, Standardized Presentation
MMIMPQ_DC	Impairment of Mineral Properties Data Code	1	STD	Industrial Format, Consolidated Information, Standardized Presentation
MMIMPQ_FN	Impairment of Mineral Properties Footnote	1	STD	Industrial Format, Consolidated Information, Standardized Presentation
MMIMPY	Impairment of Mineral Properties	1	STD	Industrial Format, Consolidated Information, Standardized Presentation
MMIMPY_DC	Impairment of Mineral Properties Data Code	1	STD	Industrial Format, Consolidated Information, Standardized Presentation

MMIMPY_FN	Impairment of Mineral Properties Footnote	1	STD	Industrial Format, Consolidated Information, Standardized Presentation
NRTXT_DC	Nonrecurring Income Taxes After-tax Data Code	7	SFAS	Industrial Format, Pre-FASB Reporting, Standardized Presentation
OGI	Impairment of Oil and Gas	1	STD	Industrial Format, Consolidated Information, Standardized Presentation
OGI_DC	Impairment of Oil and Gas Data Code	1	STD	Industrial Format, Consolidated Information, Standardized Presentation
OGI_FN	Impairment of Oil and Gas Footnote	1	STD	Industrial Format, Consolidated Information, Standardized Presentation
OGIQ	Impairment of Oil and Gas	1	STD	Industrial Format, Consolidated Information, Standardized Presentation
OGIQ_DC	Impairment of Oil and Gas Data Code	1	STD	Industrial Format, Consolidated Information, Standardized Presentation
OGIQ_FN	Impairment of Oil and Gas Footnote	1	STD	Industrial Format, Consolidated Information, Standardized Presentation
OGIY	Impairment of Oil and Gas	1	STD	Industrial Format, Consolidated Information, Standardized Presentation
OGIY_DC	Impairment of Oil and Gas Data Code	1	STD	Industrial Format, Consolidated Information, Standardized Presentation
OGIY_FN	Impairment of Oil and Gas Footnote	1	STD	Industrial Format, Consolidated Information, Standardized Presentation
OROPM	Refining Operating Margin (\$ per barrel)	1	STD	Industrial Format, Consolidated Information, Standardized Presentation
OROPM_DC	Refining Operating Margin (\$ per barrel) Data Code	1	STD	Industrial Format, Consolidated Information, Standardized Presentation
OROPM_FN	Refining Operating Margin (\$ per barrel) Footnote	1	STD	Industrial Format, Consolidated Information, Standardized Presentation
OROPMQ	Refining Operating Margin (\$ per barrel)	1	STD	Industrial Format, Consolidated Information, Standardized Presentation
OROPMQ_DC	Refining Operating Margin (\$ per barrel) Data Code	1	STD	Industrial Format, Consolidated Information, Standardized Presentation
OROPMQ_FN	Refining Operating Margin (\$ per barrel) Footnote	1	STD	Industrial Format, Consolidated Information, Standardized Presentation
OROPMY	Refining Operating Margin (\$ per barrel)	1	STD	Industrial Format, Consolidated Information, Standardized Presentation
OROPMY_DC	Refining Operating Margin (\$ per barrel) Data Code	1	STD	Industrial Format, Consolidated Information, Standardized Presentation
OROPMY_FN	Refining Operating Margin (\$ per barrel) Footnote	1	STD	Industrial Format, Consolidated Information, Standardized Presentation
PNRSHOQ_DC	Nonred Pfd Shares Outs (000) - Quarterly Data Code	5	PFO	Industrial Format, Pro Forma Reporting, Standardized Presentation
RVNO_DC	Reserves - Nondistributable - Other Data Code	4	FS	Financial Services Format, Consolidated Information, Standardized Presentation
TEQ	Stockholders Equity Total Index Fundamental	10	PDIV	Industrial Format, Pre-Divestiture Reporting, Standardized Presentation
TEQQ	Stockholders Equity - Total	10	PDIV	Industrial Format, Pre-Divestiture Reporting, Standardized Presentation

TXNDB_DC	Net Deferred Tax Asset (Liab) - Total - Data Code	2100	BSTD	Bank Format, Consolidated Information, Standardized Presentation
UREVGT0_DC	Gas Transported For Others - Revenue - Total Data Code	1	STD	Industrial Format, Consolidated Information, Standardized Presentation
WDD_DC	Writedowns Diluted EPS Effect Data Code	2100	BSTD	Bank Format, Consolidated Information, Standardized Presentation
WDDY_DC	Writedowns Diluted EPS Effect Data Code	2100	BSTD	Bank Format, Consolidated Information, Standardized Presentation
WDEPS_DC	Writedowns Basic EPS Effect Data Code	2100	BSTD	Bank Format, Consolidated Information, Standardized Presentation
WDEPSY_DC	Writedowns Basic EPS Effect Data Code	2100	BSTD	Bank Format, Consolidated Information, Standardized Presentation

JULY 2017 LINK EDITS

GVKEY 137722 (TRANSGENOMIC INC)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19980101	20000717	0	0	00X	NR	C
20000718	20070221	88471	37961	01	LC	P
20070222	20140508	0	0	01	NR	P
20140509	99999999	88471	37961	01	LC	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19980101	20000717	0	0	00X	NR	C
20000718	20070221	88471	37961	01	LC	P
20070222	20140508	0	0	01	NR	P
20140509	20170221	88471	37961	01	LC	P
20170222	99999999	0	0	01	NR	P

GVKEY 30100 (NUCENTRIX BROADBAND NETWORKS)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19930101	19940421	0	0	00X	NU	C
19940422	19981015	80448	13019	01	LC	P
19981016	19990811	0	0	01	NR	P
19990812	20030813	87177	13019	01	LC	P
20030814	20040630	0	0	01	NR	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19930101	19940421	0	0	00X	NU	C
19940422	19981015	80448	13019	01	LC	P
19981016	19990331	0	0	01	NR	P
19990401	19990429	0	0	01	NR	C
19990430	19990430	0	0	01	NR	N
19990430	19990811	0	0	02	NR	P
19990812	20030813	87177	13019	02	LC	P
20030814	20040630	0	0	02	NR	P

GVKEY 170781 (TITAN ENERGY LLC)**OLD:**

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20060101	20120313	0	0	00X	NR	C
20120314	20160902	13204	53980	01	LC	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20070101	20120313	0	0	00X	NR	C
20120314	20160712	13204	53980	01	LC	P
20160713	20160831	0	0	01	NR	P
20160901	20160929	0	0	01	NR	C
20160930	20160930	0	0	01	NR	N
20160930	99999999	0	0	05	NR	P

GVKEY 3785 (DATARAM CORP)**OLD:**

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19730501	19750603	0	0	00X	NR	C
19750604	99999999	63546	1409	01	LC	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19730501	19750603	0	0	00X	NR	C
19750604	20170530	63546	1409	01	LC	P

JUNE 2017 LINK EDITS**GVKEY 141720 (ENERGY TRANSFER PARTNERS -LP)****OLD:**

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19990101	20000830	0	0	00X	NR	C
20000831	99999999	84400	31664	01	LC	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19990101	20000830	0	0	00X	NR	C
20000831	20170427	84400	31664	01	LC	P
20170428	20170430	0	0	01	NR	P
20170501	99999999	89304	42780	01	LC	P

GVKEY 31059 (ZYMEWORKS INC)**OLD:**

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20140101	20170427	0	0	00X	NR	C
20170428	99999999	16668	55912	01	LC	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20140101	20170427	0	0	00X	NR	C
20170428	99999999	16668	55912	01	LC	P
20170428	99999999	16668	55912	01C	LX	N

GVKEY 2990 (CELSION CORP)**OLD:**

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19821001	19850304	0	0	00X	NR	C
19850305	19870305	86589	7449	01	LC	C
19870306	20000530	0	0	01	NR	C
20000531	20131031	88208	37489	01	LC	C

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19821001	19850304	0	0	00X	NR	C
19850305	19870305	86589	7449	01	LC	C
19870306	20000530	0	0	01	NR	C
20000531	99999999	88208	37489	01	LC	C

GVKEY 16957 (HARLEYSVILLE FINANCIAL CORP)**OLD:**

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19870901	99999999	11652	9473	01	LU	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19870901	20121226	11652	9473	01	LC	P
20121227	99999999	0	0	01	NR	P

GVKEY 63901 (RESSURE BIOSCIENCES INC)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19950101	19961030	0	0	00X	NU	C
19961031	99999999	84056	15097	01	LU	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19950101	19961030	0	0	00X	NR	C
19961031	20120404	84056	15097	01	LC	P
20120405	99999999	0	0	01	NR	P

GVKWKY 187737 (IGNITE RESTAURANT GROUP INC)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20070101	20120510	0	0	00X	NR	C
20120511	99999999	13408	54085	01	LC	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20070101	20120510	0	0	00X	NR	C
20120511	20170313	13408	54085	01	LC	P
20170314	99999999	0	0	01	NR	P

MAY 2017 LINK EDITS**GVKEY 107434 (MINCO GOLD CORP)**

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20051122	99999999	90995	48796	01	LC	P
19980430	20051121	0	0	01C	NU	C
20051122	99999999	90995	48796	01C	LX	N

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20051122	20170127	90995	48796	01	LC	P
20170128	99999999	0	0	01	NR	P
19980430	20051121	0	0	01C	NU	C
20051122	20170127	90995	48796	01C	LX	N
20170128	99999999	0	0	01C	NR	N

GVKEY 108645 (ULTRA PETROLEUM CORP)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20010118	99999999	88882	41178	01	LC	P
19900731	20010117	0	0	01C	NU	C
20010118	20040331	88882	41178	01C	LX	N

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20010118	20160502	88882	41178	01	LC	P
20160503	20170331	0	0	01	NR	P
20170401	20170412	0	0	01	NR	C
20170413	99999999	0	0	01	NR	N
19900731	20010117	0	0	01C	NU	C
20010118	20040331	88882	41178	01C	LX	N
20170413	99999999	16682	41178	02	LC	P

GVKEY 142460 (PEABODY ENERGY CORP)**OLD:**

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19990401	20010522	0	0	00X	NR	C
20010523	20170331	88991	41580	01	LC	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19990401	20010522	0	0	00X	NR	C
20010523	20160413	88991	41580	01	LC	P
20160414	20170331	0	0	01	NR	P
20170401	20170403	0	0	01	NR	C
20170404	99999999	0	0	01	NR	N
20170404	99999999	16689	55925	03	LC	P

GVKEY 163024 (VIRTUS TOTAL RETURN FUND INC)**OLD:**

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20041001	20050223	0	0	00X	NU	C
20050224	20170331	90549	46148	01	LC	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20041001	20050223	0	0	00X	NR	C
20050224	20170331	90549	46148	01	LC	P
20170401	99999999	70295	21954	01	LC	P

GVKEY 180303 (WISDOMTREE AUS & NZ DEBT FD)**OLD:**

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20080625	20170331	92714	50852	01	LS	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20080625	20170322	92714	50852	01	LS	P
20170323	99999999	0	0	01	NR	P

GVKEY 184742 (EMERALD OIL INC)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20100101	20100429	0	0	00X	NR	C
20100430	20110228	0	0	01	NR	P
20110301	20160331	12637	53701	01	LC	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20100101	20100429	0	0	00X	NR	C
20100430	20110228	0	0	01	NR	P
20110301	20160322	12637	53701	01	LC	P
20160323	99999999	0	0	01	NR	P

GVKEY 185113 (STANDARD FINANCIAL CORP)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20071001	20101006	0	0	00X	NR	C
20101007	99999999	12362	53545	01	LC	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20071001	20101006	0	0	00X	NR	C
20101007	20130925	12362	53545	01	LC	P
20130926	99999999	0	0	01	NR	P

GVKEY 186681 (OLD PSG WIND-DOWN LTD)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20080601	20110330	0	0	00X	NR	C
20120430	20140619	0	0	01	NR	P
20140620	99999999	14735	54919	01	LC	P
20110331	20120429	0	0	01C	NR	C
20120430	20140619	0	0	01C	NR	N
20140620	99999999	14735	54919	01C	LX	N

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20080601	20110330	0	0	00X	NR	C
20120430	20140619	0	0	01	NR	P
20140620	20161031	14735	54919	01	LC	P
20161101	99999999	0	0	01	NR	P
20110331	20120429	0	0	01C	NR	C
20120430	20140619	0	0	01C	NR	N
20140620	20161031	14735	54919	01C	LX	N
20161101	20161230	0	0	01C	NR	N

APRIL 2017 LINK EDITS

GVKEY 19349 (SIEMENS AG)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19930129	20010228	0	0	90	NU	P
20010301	20010311	0	0	90	NU	C
20010312	20010531	0	0	90	NU	N
20010312	99999999	88935	41380	91	LC	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19930129	20010228	0	0	90	NR	P
20010301	20010311	0	0	90	NR	C
20010312	20010531	0	0	90	NR	N
20010312	20140515	88935	41380	91	LC	P
20140516	99999999	0	0	91	NR	P

GVKEY 164109 (LINN ENERGY INC)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20000101	20060112	0	0	00X	NR	C
20060113	20170228	91081	50200	01	LC	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20000101	20060112	0	0	00X	NR	C
20060113	20160523	91081	50200	01	LC	P
20160524	20170228	0	0	01	NR	P
20170331	99999999	0	0	03	NR	P

GVKEY 184339 (DS HEALTHCARE GROUP INC)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20090101	20100527	0	0	00X	NR	C
20100528	20121212	0	0	01	NR	C
20121213	99999999	13702	54277	01	LC	C

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20090101	20100527	0	0	00X	NR	C
20100528	20121212	0	0	01	NR	C
20121213	20160404	13702	54277	01	LC	C
20160405	99999999	0	0	01	NR	C

GVKEY 24552 (DASEKE INC)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20170228	99999999	0	0	02	NR	C

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20170228	99999999	15654	55359	01	LC	P

MARCH 2017 LINK EDITS**GVKEY 25095 (STEMCELLS INC)**

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19910101	20110705	0	0	00X	NR	C
20110706	20161128	77437	11432	01	LC	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19910101	19920324	0	0	00X	NR	C
19920325	20161128	77437	11432	01	LC	P

GVKEY 107757 (ALDERON IRON ORE CORP)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20111031	20120308	0	0	01	NR	P
20120309	99999999	13281	54005	01	LC	P
19980430	20111030	0	0	01C	NR	C
20111031	20120308	0	0	01C	NR	N
20120309	99999999	13281	54005	01C	LX	

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20111031	20120308	0	0	01	NR	P
20120309	20151023	13281	54005	01	LC	P
20151024	99999999	0	0	01	NR	P
19980430	20111030	0	0	01C	NR	C
20111031	20120308	0	0	01C	NR	N
20120309	20151023	13281	54005	01C	LX	N
20151024	99999999	0	0	01C	NR	N

GVKEY 113530 (LIME ENERGY CO)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19980501	19980830	0	0	00X	NR	C
19980831	20001211	0	0	01	NR	P
20001212	20060611	88850	41078	01	LC	P
20060612	20080224	0	0	01	NR	P
20080225	99999999	88850	41078	01	LC	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20000101	20060112	0	0	00X	NR	C
20060113	20160523	91081	50200	01	LC	P
20160524	20170228	0	0	01	NR	P
20170331	99999999	0	0	03	NR	P
20080225	20160830	88850	41078	01	LC	P
20160831	99999999	0	0	01	NR	P

GVKEY 183735 (EXCEED CO LTD)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20070101	20091020	0	0	00X	NR	C
20091021	99999999	92507	52850	01	LC	P
20091021	20111104	0	0	02	NR	J

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20070101	20091020	0	0	00X	NR	C
20091021	20150429	92507	52850	01	LC	P
20150430	99999999	0	0	01	NR	P
20091021	20111104	0	0	02	NR	J

FEBRUARY 2017 LINK EDITS**GVKEY 18427 (AZURE MIDSTREAM PARTNERS LP)**

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20110101	20130725	0	0	00X	NR	C
20130726	99999999	14049	54479	1	LC	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20110101	20130725	0	0	00X	NR	C
20130726	20160603	14049	54479	1	LC	P
20160604	99999999	0	0	1	NR	P

GVKEY 164607 (HERCULES OFFSHORE INC)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20040101	20051026	0	0	00X	NR	C
20051027	20150823	90951	47879	1	LC	P
20150824	20151031	0	0	1	NR	P
20151101	20151108	0	0	1	NR	C
20151109	20161205	90951	47879	3	LC	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20040101	20051026	0	0	00X	NR	C
20051027	20150823	90951	47879	1	LC	P
20150824	20151031	0	0	1	NR	P
20151101	20151108	0	0	1	NR	C
20151109	20160614	90951	47879	3	LC	P
20160615	20161230	0	0	3	NR	P

GVKEY 174121 (ULTRAPETROL BAHAMAS LTD)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20010101	20061012	0	0	00X	NU	C
20061013	99999999	91511	51317	1	LC	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20040101	20061012	0	0	00X	NR	C
20061013	20161018	91511	51317	1	LC	P
20161019	99999999	0	0	1	NR	P

GVKEY 180145 (FORBES ENERGY SERVICES LTD)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20060101	20080529	0	0	00X	NR	C
20110816	99999999	12963	53870	1	LC	P
20080530	20110815	0	0	01C	NR	C
20110816	99999999	12963	53870	01C	LX	N

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20060101	20080529	0	0	00X	NR	C
20110816	20161118	12963	53870	1	LC	P
20161119	99999999	0	0	1	NR	P
20080530	20110815	0	0	01C	NR	C
20110816	20121130	12963	53870	01C	LX	N

GVKEY 183636 (R1 RCM INC)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20070101	20100519	0	0	00X	NR	C
20100520	99999999	93369	53403	1	LC	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20070101	20100519	0	0	00X	NR	C
20100520	20140314	93369	53403	1	LC	P
20140315	99999999	0	0	1	NR	P

GVKEY 186336 (C&J ENERGY SERVICES LTD)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20060101	20110728	0	0	00X	NR	C
20110729	20161231	12894	53830	1	LC	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20060101	20110728	0	0	00X	NR	C
20110729	20160720	12894	53830	1	LC	P
20160721	20161231	0	0	1	NR	P
20170101	20170130	0	0	1	NR	C
20170131	99999999	0	0	1	NR	N
20170131	99999999	0	0	3	NR	P

GVKEY 186875 (BOX SHIPS INC)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20100101	20110413	0	0	00X	NR	C
20110414	99999999	12687	53721	1	LC	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20100101	20110413	0	0	00X	NR	C
20110414	20151117	12687	53721	1	LC	P
20151118	99999999	0	0	1	NR	P

GVKEY 260838 (CIPHER PHARMACEUTICALS INC)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20031001	20040226	0	0	00X	NR	C
20120531	20141031	0	0	1	NR	J
20141101	20141123	0	0	1	NR	P
20141124	99999999	15061	55107	1	LC	P
20040227	20141031	0	0	01C	NR	C
20141101	20141123	0	0	01C	NR	N
20141124	99999999	15061	55107	01C	LX	N

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20031001	20040226	0	0	00X	NR	C
20120531	20141031	0	0	1	NR	J
20141101	20141123	0	0	1	NR	P
20141124	20161208	15061	55107	1	LC	P
20161209	20161230	0	0	1	NR	P
20040227	20141031	0	0	01C	NR	C
20141101	20141123	0	0	01C	NR	N
20141124	20161208	15061	55107	01C	LX	N
20161209	20161231	0	0	01C	NR	N
20170101	99999999	0	0	01C	NR	C

GVKEY 282189 (ENERGY XXI LTD)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20050701	20070628	0	0	00X	NR	C
20070629	20070731	0	0	1	NR	P
20070801	20161231	92215	52665	1	LC	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20050701	20070628	0	0	00X	NR	C
20070629	20070731	0	0	1	NR	P
20070801	20160422	92215	52665	1	LC	P
20160423	20161230	0	0	1	NR	P

GVKEY 1356 (ALCOA INC)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19500101	19620130	0	0	00X	NR	C
19620131	99999999	24643	20060	1	LC	P
20050331	20050331	0	0	2	NR	J

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19500101	19620130	0	0	00X	NR	C
19620131	20161031	24643	20060	1	LC	P
20050331	20050331	0	0	2	NR	J

JANUARY 2017 LINK EDITS**GVKEY 11644 (KEY ENERGY SERVICES INC)****OLD:**

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19790701	19801015	0	0	00X	NR	C
19801016	20160727	63079	5036	01	LC	P
20160728	99999999	0	0	01	NR	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19790701	19801015	0	0	00X	NR	C
19801016	20160727	63079	5036	01	LC	P
20160728	20161130	0	0	01	NR	P
20161201	20161215	0	0	01	NR	C
20161216	99999999	63079	5036	03	LC	P

GVKEY 65808 (RUBICON MINERALS CORP)**OLD:**

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20040430	20040907	0	0	01	NR	P
20040908	99999999	90343	45537	01	LC	P
19971128	20040429	0	0	01C	NR	C
20040430	20040907	0	0	01C	NR	N
20040908	20160111	90343	45537	01C	LX	N
20160112	99999999	0	0	01C	NR	N

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20040430	20040907	0	0	01	NR	C
20040908	20160111	90343	45537	01	LC	C
20160112	99999999	0	0	01	NR	C
19971128	20040429	0	0	01C	NR	C
20040430	20040907	0	0	01C	NR	N
20040908	20160111	90343	45537	01C	LX	N

GVKEY 143283 (TELESTONE TECHNOLOGIES CORP)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20030101	20040830	0	0	00X	NR	C
20040831	20050516	0	0	01	NR	C
20050517	20130416	90696	46682	01	LC	C
20130417	99999999	0	0	99X	NR	C

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20030101	20040830	0	0	00X	NR	C
20040831	20050516	0	0	01	NR	C
20050517	20130416	90696	46682	01	LC	C
20130417	99999999	0	0	01	NR	C

GVKEY 138601 (P10 INDUSTRIES INC)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19970101	20000807	0	0	00X	NR	C
20000808	99999999	88497	38399	01	LC	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19970101	20000807	0	0	00X	NR	C
20000808	20161130	88497	38399	01	LC	P
20161201	99999999	0	0	01	NR	P

DECEMBER 2016 LINK EDITS**GVKEY 2942 (CANTEL MEDICAL CORP)**

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19740101	19790709	0	0	00X	NU	C
19790710	99999999	22825	904	01	LU	C

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19740101	19790730	0	0	00X	NR	C
19790731	19890417	0	0	01	NR	C
19890418	99999999	22825	904	01	LC	C

GVKEY 26337 (XTERA COMMUNICATIONS INC)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20121001	20151111	0	0	00X	NR	C
20151112	99999999	15858	55492	01	LC	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20121001	20151111	0	0	00X	NR	C
20151112	20161014	15858	55492	01	LC	P
20161015	99999999	0	0	01	NR	P

GVKEY 28378 (LIONS GATE ENTERTAINMENT CP)**OLD:**

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19981117	99999999	86408	34913	01	LC	P
19881031	19981116	0	0	01C	NU	C
19981117	20060731	86408	34913	01C	LX	N

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19981117	99999999	86408	34913	01	LC	P
19881031	19981116	0	0	01C	NR	C
19981117	99999999	86408	34913	01C	LX	N

NOVEMBER 2016 LINK EDITS**GVKEY 64346 (EPIQ SYSTEMS INC)****OLD:**

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19950101	19970203	0	0	00X	NU	C
19970204	20161031	84531	15312	01	LU	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19950101	19970203	0	0	00X	NR	C
19970204	20160930	84531	15312	01	LC	P

GVKEY 11644 (KEY ENERGY SERVICES INC)**OLD:**

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19790701	19801015	0	0	00X	NU	C
19801016	99999999	63079	5036	01	LU	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19790701	19801015	0	0	00X	NR	C
19801016	20160727	63079	5036	01	LC	P
20160728	99999999	0	0	01	NR	P

GVKEY 20761 (UNITED DEV FUNDING IV)**OLD:**

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20090101	20140603	0	0	00X	NR	C
20140604	99999999	14709	54900	01	LC	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20090101	20140603	0	0	00X	NR	C
20140604	20160218	14709	54900	01	LC	P
20160219	99999999	0	0	01	NR	P

GVKEY 190957 (SEVENTY SEVEN ENERGY INC)**OLD:**

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20090101	20140630	0	0	00X	NR	C
20140701	20160802	14683	54877	01	LC	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20090101	20140630	0	0	00X	NR	C
20140701	20160516	14683	54877	01	LC	P
20160517	20160731	0	0	01	NR	P
20160801	20160831	0	0	01	NR	C
20161031	99999999	0	0	02	NR	P

OCTOBER 2016 LINK EDITS**GVKEY 178698 (AAC HOLDINGS INC)****OLD:**

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20141002	99999999	14945	55038	00X	LC	C
20080131	20141001	0	0	01	NR	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20080131	20141001	0	0	01	NR	P
20141002	99999999	14945	55038	01	LC	P

GVKEY 13288 (ROCK CREEK PHARMACEUTICALS)**OLD:**

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19860101	19860324	0	0	00X	NU	C
19860325	19880111	87816	18443	01	LC	C
19880112	20000320	0	0	01	NR	C
20000321	99999999	87816	18443	01	LC	C

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19860101	19860324	0	0	00X	NR	C
19860325	19871231	87816	18443	01	LC	C
19880101	20000320	0	0	01	NR	C
20000321	20151104	87816	18443	01	LC	C
20151105	99999999	0	0	01	NR	C

GVKEY 17982 (AMERITRANS CAPITAL CORP)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19850329	19980622	0	0	01	NU	C
19980623	99999999	86161	16174	01	LU	C

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19850329	19980622	0	0	01	NR	C
19980623	20120502	86161	16174	01	LC	C
20120503	99999999	0	0	01	NR	C

GVKEY 14489 (DELL TECHNOLOGIES INC)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19870201	19880621	0	0	00X	NU	C
19880622	20131031	11081	9833	01	LU	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19870201	19880621	0	0	00X	NR	C
19880622	20131031	11081	9833	01	LC	P
20160907	99999999	16267	55676	02	LC	P

SEPTEMBER 2016 LINK EDITS**GVKEY: 27338 (APTEVO THERAPEUTICS INC)**

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20110101	20160719	0	0	00X	NR	C
20160720	99999999	0	0	01	NR	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20110101	20160731	0	0	00X	NR	C
20160801	99999999	16146	55606	01	LC	P

GVKEY: 17727 (EKSO BIONICS HOLDINGS INC)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20140131	99999999	0	0	01	NR	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20140131	99999999	16252	55669	01	LC	P

GVKEY: 260324 (MAXCOM TELECOMUNICACIONES SA)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20050101	20071030	0	0	00X	NR	C
20071031	99999999	92341	52805	90	LC	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20050101	20071030	0	0	00X	NR	C
20071031	20141113	92341	52805	90	LC	P
20141114	99999999	0	0	90	NR	P

AUGUST 2016 LINK EDITS**GVKEY 5600 HERTZ GLOBAL HOLDINGS INC**

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19760101	19970424	0	0	00X	NR	C
19970425	20010309	84663	34736	01	LC	P
20061116	99999999	91575	51423	05	LC	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19760101	19970424	0	0	00X	NR	C
19970425	20010309	84663	34736	01	LC	P
20061116	20160630	91575	51423	05	LC	P
20160701	99999999	16086	55584	05	LC	P

GVKEY 10277 TECO ENERGY INC

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19510101	19620130	0	0	00X	NU	C
19620131	19620701	0	0	01	NU	P
19620702	20160729	37161	21700	01	LU	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19510101	19620130	0	0	00X	NR	C
19620131	19620701	0	0	01	NR	P
19620702	20160630	37161	21700	01	LC	P

GVKEY 23827 COLUMBIA PIPELINE GROUP INC

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20130101	20150701	0	0	00X	NR	C
20150702	20160729	15404	55294	01	LC	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20110101	20150701	0	0	00X	NR	C
20150702	20160630	15404	55294	01	LC	P

GVKEY 1837 AGL RESOURCES INC**OLD:**

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19571001	19620130	0	0	00X	NR	C
19620131	19721213	0	0	01	NR	P
19721214	20160729	15553	116	01	LC	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19571001	19620130	0	0	00X	NR	C
19620131	19721213	0	0	01	NR	P
19721214	20160630	15553	116	01	LC	P

GVKEY 6115 INTL SHIPHOLDING CORP**OLD:**

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19790101	19790418	0	0	00X	NU	C
19790419	99999999	45437	2364	01	LU	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19790101	19790418	0	0	00X	NR	C
19790419	20151218	45437	2364	01	LC	P
20151219	99999999	0	0	01	NR	P

GVKEY 18576 AXION POWER INTL INC**OLD:**

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19860731	20141023	0	0	01	NR	C
20141024	99999999	14993	55068	01	LC	C

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19860731	20141023	0	0	01	NR	C
20141024	20160205	14993	55068	01	LC	C
20160206	99999999	0	0	01	NR	C

GVKEY 26900 CHAMPION INDUSTRIES INC**OLD:**

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19911101	19930120	0	0	00X	NU	C
19930121	99999999	78816	11905	01	LU	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19911101	19930120	0	0	00X	NR	C
19930121	20120713	78816	11905	01	LC	P
20120714	99999999	0	0	01	NR	P

GVKEY 112035 MANAGED HIGH YIELD PLUS FUND**OLD:**

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19980601	19980624	0	0	00X	NU	C
19980625	20160630	86127	34787	01	LU	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19980601	19980624	0	0	00X	NR	C
19980625	20160622	86127	34787	01	LC	P
20160623	20160630	0	0	01	NR	P

GVKEY 4828 DELHAIZE AMERICA INC**OLD:**

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19700101	19710225	0	0	00X	NR	C
19831031	19860331	37197	1681	01	LC	J
19860401	19990908	37197	1681	01	LC	P
19990909	20010425	87205	35270	01	LC	P
19710226	19860331	0	0	02	NR	P
19860401	19990908	0	0	02	NR	J
19990909	20010425	87206	35270	02	LC	J
20010426	20070731	0	0	99X	NR	C

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19700101	19710225	0	0	00X	NR	C
19831031	19860331	37197	1681	01	LC	J
19860401	19990908	37197	1681	01	LC	P
19990909	20010425	87205	35270	01	LC	P
19710226	19721213	0	0	02	NR	P
19721214	19860331	37189	1681	02	LC	P
19860401	19990908	37189	1681	02	LC	J
19990909	20010425	87206	35270	02	LC	J
20010426	20070731	0	0	99X	NR	C

GVKEY 7291 MANAGED HIGH YIELD PLUS FUND

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19650501	19680130	0	0	00X	NU	C
19680131	19820926	0	0	01	NU	P
19820927	99999999	53197	2881	01	LU	P
19820129	20040130	53189	2881	02	LU	J

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19650501	19680130	0	0	00X	NR	C
19680131	19721213	0	0	01	NR	P
19721214	19820926	53189	2881	01	LC	P
19820927	99999999	53197	2881	01	LC	P
19820129	19820926	53189	2881	02	LD	J
19820927	20040108	53189	2881	02	LC	J

STEPS TO INSTALL:

- From the directory containing your downloaded zip file, right click (in Windows) or run File Roller (in Red Hat and Solaris)
- Set the extract destination to the current higher level directory where data is normally stored and unzip will add the rest of the path (default is C:\ in Windows or /home in Red Hat and Solaris)
- For example, in Windows, extracting to C:\ will install the data under C:\crspdata

Contact CRSP Client Services for assistance at: support@crsp.chicagobooth.edu or call 312-263-6400, Option 2.

SETTING ENVIRONMENT VARIABLES

The zip process will not automatically set environment variables for use with command line tools. The following steps will do so.

NOTE: CRSPSift does not use and therefore does not require environment variables.

LINUX AND SUN SOLARIS

NOTE: The new zip installs are now saving to directories with lower case letters – for example, ~/crspdata/diz201308

Check the current state of the environment variables by entering this command: `env | grep crsp`

- If you have admin privileges on your machine, open the .profile file, and make updates to the following lines to update the paths for the new data installed:
 - `CRSP_CCM=<full path name>/<compustat directory>` (example: `CRSP_CCM=~ /crspdata/cmz201309`)
- If you are using the bash shell (or any Bourne-style shell), enter the same commands above and export each one. This will make changes for your current session only and does not save to the .profile file.
- A shell script is available to make changes that can be reused for each update done. Note that this will only make changes to your current session and does not save to the .profile file.
 - Navigate to where the CUPL tools are loaded and then enter: `cd acsbin`
 - Start the script by entering: `./crsp_setup.sh`
 - The script will prompt for the following:

- File name (*will be appended with .kshrc*)
- Top level directory (this should be where CUPL tools are located (example: ~/crsp)
- Scratch directory for error messages – name can be anything
- Enter path for daily stock directory (example: ~/crspdata/diz201308)
- Enter path for monthly stock directory (example: ~/crspdata/miz201308)
- Enter path for index directory (example: ~/crspdata/ifz201308)
- Enter path for CCM directory – enter to leave blank (example: CRSP_CCM=~/crspdata/cmz201309)
- Enter path for CST directory – enter to leave blank
- Execute script by running: `../<file name created above>.kshrc` (*note there is a space between the two dots*)

WINDOWS:

The CRSP Client Environment utility provides users a way to check the location of the software and to set environment variables. The utility can be started by locating it under installed programs CRSPAccess/CRSP Client Environment, or by navigating to the /accbin folder where the CUPL tools are installed and running: `Client_Environment.exe` . After making any changes, be sure to log off and back into Windows for the settings to be saved.