

CRSP/COMPUSTAT RELEASE NOTES

JULY 2016 ANNUAL UPDATE

SUN SOLARIS SUPPORT ENDING

In order to ensure that our subscribers continue to have robust and dependable data access, CRSP is retiring big-endian databases for use on Solaris platforms following publication of the December 2016 data cut that is available in January 2017. After this time CRSP databases will be available in flat file formats that can be used on all platforms, through our partner distributors such as WRDS and TQA, and for use with CRSP tools on the following CRSP-supported platforms:

- Windows 8.1 & 10 – 32-bit & 64-bit
- Red Hat Linux – 32-bit & 64-bit

Oracle's Solaris support at CRSP ended in June 2016. CRSP is making efforts to contact our subscribers impacted by this change to ensure a timely transition. Should you have immediate questions, please contact us at:

User Support – CRSP Research Products:
Support@crsp.ChicagoBooth.edu
312-263-6400 select # 2

ABOUT THE JULY 2016 CRSP/COMPUSTAT MERGED DATABASE

The cut date for these release notes is July 9, 2016. This shipment includes the following version of the CRSP/Compustat Merged Database:

- CMZ20160708– 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
<i>Source</i>	<i>Compustat Xpressfeed</i>
Volume Label	CMZyyyyymm
Size	10.13 GB
Delivery	MOVEit Cloud
CRSPAccess version	3.22 and higher – ts_print ccm_print

ATTRIBUTE	CCM FORMAT DATABASE
CRSPSift Version (Windows only)	Yes – all currently supported versions.
SASEXCCM Engine	Version 9.3 (Early Adopters)
C	Yes – CA3.22 and higher
Fortran-95	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	46449
Total GVKEY Companies	44251
Total GVKEYX Indexes	2198
Total GVKEY/IID Securities	56359
Total CRSP Securities Linked	27803
Total GVKEYS in Link	42524
Total Link Records	97223
Total Link Records with a Link to CRSP	32274
Database Size	10.05 GB

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	19251231-20160708	1-23879
Monthly trading calendar	19251231-20201231	1-1141
Annual trading calendar	19251231-20171229	1-93
Quarterly trading calendar	19251231-20171229	1-369
Semi-Annual trading calendar	19251231-20171229	1-185
Weekly trading calendar	19260102-20160708	1-4715

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
APC_DC	Accounts Payable/Creditors - Customer Data Code	4	FS	Financial Services Format, Consolidated Information, Standardized Presentation
ARB_DC	Accounts Receivable/Debtors - Brokers, Dealers, and Clearing Organizations Dat	4	FS	Financial Services Format, Consolidated Information, Standardized Presentation
DERACQ	Derivative Assets - Current	5	PFO	Industrial Format, Pro Forma Reporting, Standardized Presentation
DERALTQ_DC	Derivative Assets - Long Term Data Code	7	SFAS	Industrial Format, Pre-FASB Reporting, Standardized Presentation
DERHEDGL	Gains/Losses on Derivatives and Hedging	5	PFO	Industrial Format, Pro Forma Reporting, Standardized Presentation
DERHEDGLQ	Gains/Losses on Derivatives and Hedging	5	PFO	Industrial Format, Pro Forma Reporting, Standardized Presentation
DERHEDGLY	Gains/Losses on Derivatives and Hedging	5	PFO	Industrial Format, Pro Forma Reporting, Standardized Presentation
DERLLTQ_DC	Derivative Liabilities - Long-Term Data Code	7	SFAS	Industrial Format, Pre-FASB Reporting, Standardized Presentation
DTEP_DC	Extinguishment of Debt Pretax Data Code	2100	BSTD	Bank Format, Consolidated Information, Standardized Presentation
FINACQ	Finance Division: Other Current Assets, Total	5	PFO	Industrial Format, Pro Forma Reporting, Standardized Presentation
FINAQ	Finance Division: Other Long-Term Assets, Total	5	PFO	Industrial Format, Pro Forma Reporting, Standardized Presentation
FINCHQ	Finance Division: Cash and Cash Equivalents	5	PFO	Industrial Format, Pro Forma Reporting, Standardized Presentation
FINDLCQ_DC	Finance Division: Long-Term Debt - Current Data Code	5	PFO	Industrial Format, Pro Forma Reporting, Standardized Presentation
FINDLTQ	Finance Division: Debt - Long-Term	5	PFO	Industrial Format, Pro Forma Reporting, Standardized Presentation
FINDLTQ_FN	Finance Division: Debt - Long-Term Foot Note	5	PFO	Industrial Format, Pro Forma Reporting, Standardized Presentation

FINIVSTQ	Finance Division: Short-Term Investments	5	PFO	Industrial Format, Pro Forma Reporting, Standardized Presentation
FINLCOQ	Finance Division: Other Current Liabilities, Total	5	PFO	Industrial Format, Pro Forma Reporting, Standardized Presentation
FINLTOQ	Finance Division: Other Long-Term Liabilities, Total	5	PFO	Industrial Format, Pro Forma Reporting, Standardized Presentation
FINNPQ	Finance Division: Notes Payable	5	PFO	Industrial Format, Pro Forma Reporting, Standardized Presentation
FINRECCQ	Finance Division: Current Receivables	5	PFO	Industrial Format, Pro Forma Reporting, Standardized Presentation
FINRECLTQ	Finance Division: Long-Term Receivables	5	PFO	Industrial Format, Pro Forma Reporting, Standardized Presentation
FINREV	Finance Division: Revenue	5	PFO	Industrial Format, Pro Forma Reporting, Standardized Presentation
FINREVQ	Finance Division: Revenue	5	PFO	Industrial Format, Pro Forma Reporting, Standardized Presentation
FINREVQ_DC	Finance Division: Revenue Data Code	5	PFO	Industrial Format, Pro Forma Reporting, Standardized Presentation
FINREVSA	Finance Division: Revenue	5	PFO	Industrial Format, Pro Forma Reporting, Standardized Presentation
FINREVSA_DC	Finance Division: Revenue Data Code	5	PFO	Industrial Format, Pro Forma Reporting, Standardized Presentation
FINREVV	Finance Division: Revenue	5	PFO	Industrial Format, Pro Forma Reporting, Standardized Presentation
FINREVV_DC	Finance Division: Revenue Data Code	5	PFO	Industrial Format, Pro Forma Reporting, Standardized Presentation
FINXINTQ_DC	Finance Division: Interest Expense Data Code	5	PFO	Industrial Format, Pro Forma Reporting, Standardized Presentation
FINXINTSA_DC	Finance Division: Interest Expense Data Code	5	PFO	Industrial Format, Pro Forma Reporting, Standardized Presentation
FINXINTY_DC	Finance Division: Interest Expense Data Code	5	PFO	Industrial Format, Pro Forma Reporting, Standardized Presentation
FINXOPR	Finance Division: Operating Expense	5	PFO	Industrial Format, Pro Forma Reporting, Standardized Presentation
FINXOPRQ	Finance Division: Operating Expense	5	PFO	Industrial Format, Pro Forma Reporting, Standardized Presentation
FINXOPRQ_DC	Finance Division: Operating Expense Data Code	5	PFO	Industrial Format, Pro Forma Reporting, Standardized Presentation
FINXOPRSA	Finance Division: Operating Expense	5	PFO	Industrial Format, Pro Forma Reporting, Standardized Presentation
FINXOPRSA_DC	Finance Division: Operating Expense Data Code	5	PFO	Industrial Format, Pro Forma Reporting, Standardized Presentation
FINXOPRY	Finance Division: Operating Expense	5	PFO	Industrial Format, Pro Forma Reporting, Standardized Presentation
FINXOPRY_DC	Finance Division: Operating Expense Data Code	5	PFO	Industrial Format, Pro Forma Reporting, Standardized Presentation
GLIV	Gains/Losses on Investments	5	PFO	Industrial Format, Pro Forma Reporting, Standardized Presentation
GLIVQ	Gains/Losses on Investments	5	PFO	Industrial Format, Pro Forma Reporting, Standardized Presentation
GLIVY	Gains/Losses on Investments	5	PFO	Industrial Format, Pro Forma Reporting, Standardized Presentation
HBDCQ_DC	Deliveries/Closings (\$ Thousand) Data Code	5	PFO	Industrial Format, Pro Forma Reporting, Standardized Presentation
HBDCUQ_DC	Deliveries/Closings (Exact Units) Data Code	5	PFO	Industrial Format, Pro Forma Reporting, Standardized Presentation
HBDCUY_DC	Deliveries/Closings (Exact Units) Data Code	5	PFO	Industrial Format, Pro Forma Reporting, Standardized Presentation

HBDCY_DC	Deliveries/Closings (\$ Thousands) Data Code	5	PFO	Industrial Format, Pro Forma Reporting, Standardized Presentation
HBINVNOQ	Inventories Not Owned/Deposits	5	PFO	Industrial Format, Pro Forma Reporting, Standardized Presentation
HBINVTOQ	Total Homebuilding Inventories	5	PFO	Industrial Format, Pro Forma Reporting, Standardized Presentation
HBNOCQ_DC	New Orders/Contracts (\$ Thousand) Data Code	5	PFO	Industrial Format, Pro Forma Reporting, Standardized Presentation
HBNOCUQ_DC	New Orders/Contracts (Exact Units) Data Code	5	PFO	Industrial Format, Pro Forma Reporting, Standardized Presentation
HBNOCUY_DC	New Orders/Contracts (Exact Units) Data Code	5	PFO	Industrial Format, Pro Forma Reporting, Standardized Presentation
HBNOCY_DC	New Orders/Contracts (\$ Thousands) Data Code	5	PFO	Industrial Format, Pro Forma Reporting, Standardized Presentation
IBC_DC	Income Before Extraordinary Items (Cash Flow) Data Code	1	STD	Industrial Format, Consolidated Information, Standardized Presentation
IBC_DC	Income Before Extraordinary Items (Cash Flow) Data Code	2100	BSTD	Bank Format, Consolidated Information, Standardized Presentation
ISGR_DC	Investment Securities - Gain (Loss) - Realized Data Code	4	FS	Financial Services Format, Consolidated Information, Standardized Presentation
ISOCURCD		917	BYN	NEW BELARUSIAN RUBLE
MCHPT_FN	Healthcare Premiums - Total Footnote	1	STD	Industrial Format, Consolidated Information, Standardized Presentation
MCHPTQ_FN	Healthcare Premiums - Total Footnote	1	STD	Industrial Format, Consolidated Information, Standardized Presentation
MCHPTY_FN	Healthcare Premiums - Total Footnote	1	STD	Industrial Format, Consolidated Information, Standardized Presentation
OGPDRNGL	Proved Developed Reserves-NGL	5	PFO	Industrial Format, Pro Forma Reporting, Standardized Presentation
OGPNG	Production - NG (Total)	5	PFO	Industrial Format, Pro Forma Reporting, Standardized Presentation
OGPNGL	Production - NGL (Total)	5	PFO	Industrial Format, Pro Forma Reporting, Standardized Presentation
OGPNGLQ	Production - NGL (Total)	5	PFO	Industrial Format, Pro Forma Reporting, Standardized Presentation
OGPNGLQ_DC	Production - NGL (Total) Data Code	5	PFO	Industrial Format, Pro Forma Reporting, Standardized Presentation
OGPNGLY	Production - NGL (Total)	5	PFO	Industrial Format, Pro Forma Reporting, Standardized Presentation
OGPNGLY_DC	Production - NGL (Per Day) Data Code	5	PFO	Industrial Format, Pro Forma Reporting, Standardized Presentation
OGPNGQ	Production - NG (Total)	5	PFO	Industrial Format, Pro Forma Reporting, Standardized Presentation
OGPNGQ_DC	Production - NG (Total) Data Code	5	PFO	Industrial Format, Pro Forma Reporting, Standardized Presentation
OGPNGY	Production - NG (Total)	5	PFO	Industrial Format, Pro Forma Reporting, Standardized Presentation
OGPNGY_DC	Production - NG (Per Day) Data Code	5	PFO	Industrial Format, Pro Forma Reporting, Standardized Presentation
OGPOIL	Production - Oil (Total)	5	PFO	Industrial Format, Pro Forma Reporting, Standardized Presentation
OGPOILQ	Production - Oil (Total)	5	PFO	Industrial Format, Pro Forma Reporting, Standardized Presentation
OGPOILQ_DC	Production - Oil (Total) Data Code	5	PFO	Industrial Format, Pro Forma Reporting, Standardized Presentation
OGPOILY	Production - Oil (Total)	5	PFO	Industrial Format, Pro Forma Reporting, Standardized Presentation
OGPOILY_DC	Production - Oil (Per Day) Data Code	5	PFO	Industrial Format, Pro Forma Reporting, Standardized Presentation
RSTCHELT	Restricted Cash and Investments - Long-Term	5	PFO	Industrial Format, Pro Forma Reporting, Standardized Presentation
RTTSF_FN	Total Retail Sq Footage Footnote	1	STD	Industrial Format, Consolidated Information, Standardized Presentation

RTTSFQ_FN	Total Retail Sq Footage Footnote	1	STD	Industrial Format, Consolidated Information, Standardized Presentation
RTTSFY_FN	Total Retail Sq Footage Footnote	1	STD	Industrial Format, Consolidated Information, Standardized Presentation
TXR_DC	Income Tax Refund Data Code	5	PFO	Industrial Format, Pro Forma Reporting, Standardized Presentation

JULY 2016 LINK EDITS

GVKEY 148394 (PROGRESSIVE WASTE SOLUTIONS)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20020101	20020429	0	0	00X	NR	C
20090605	20160601	92949	53167	1	LC	P
20020430	20090604	92949	53167	01C	LX	C
20090605	20160601	92949	53167	01C	LX	N

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20020101	20020429	0	0	00X	NR	C
20090605	20160531	92949	53167	1	LC	P
20020430	20090604	92949	53167	01C	LX	C
20090605	20160531	92949	53167	01C	LX	N

GVKEY 31419 (PREMIER EXHIBITIONS INC)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19950131	20060618	0	0	1	NR	P
20060619	99999999	91364	50868	1	LC	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19950131	20060618	0	0	1	NR	P
20060619	20160209	91364	50868	1	LC	P
20160210	99999999	0	0	1	NR	P

GVKEY 63590 (BANK OF IRELAND)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19960917	20160531	83992	31738	90	LU	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19960917	20150213	83992	31738	90	LC	P
20150214	20160531	0	0	90	NR	P
20160630	99999999	0	0	91	NR	P

GVKEY 110732 (WASTE CONNECTIONS INC)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19960101	19980525	0	0	00X	NR	C
19980526	99999999	86097	16123	1	LC	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19960101	19980525	0	0	00X	NR	C
19980526	20160531	86097	16123	1	LC	P
20160601	99999999	92949	53167	1	LC	P
20160601	99999999	92949	53167	01C	LX	N

GVKEY 156578 (ADVANCED EMISSIONS SOLUTIONS)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20010101	20031030	0	0	00X	NR	C
20031031	20041013	0	0	1	NR	P
20041014	99999999	90400	45708	1	LC	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20010101	20031030	0	0	00X	NR	C
20031031	20041013	0	0	1	NR	P
20041014	20150202	90400	45708	1	LC	P
20150203	99999999	0	0	1	NR	P

GVKEY 166460 (ASCENT SOLAR TECHNOLOGIES)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20050101	20060730	0	0	00X	NR	C
20060810	99999999	91428	50968	1	LC	P
20060731	20060731	0	0	2	NR	P
20060801	20060809	0	0	2	NR	C
20060810	20060831	0	0	2	NR	N

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20050101	20060730	0	0	00X	NR	C
20060810	20160224	91428	50968	1	LC	P
20160225	99999999	0	0	1	NR	P
20060731	20060731	0	0	2	NR	P
20060801	20060809	0	0	2	NR	C
20060810	20060831	0	0	2	NR	N

GVKEY 178939 (CD INTERNATIONAL ENTERPRISES)**OLD:**

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20060101	20060830	0	0	00X	NR	C
20060831	20070923	0	0	1	NR	P
20070924	99999999	92266	52749	1	LC	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20060101	20060830	0	0	00X	NR	C
20060831	20070923	0	0	1	NR	P
20070924	20120710	92266	52749	1	LC	P
20120711	99999999	0	0	1	NR	P

GVKEY 186061 (LILIS ENERGY INC)**OLD:**

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20090930	20101130	0	0	1	NR	C
20101201	20111101	0	0	1	NR	P
20111102	99999999	13113	53936	1	LC	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20090930	20101130	0	0	1	NR	C
20101201	20111101	0	0	1	NR	P
20111102	20160525	13113	53936	1	LC	P
20160526	99999999	0	0	1	NR	P

JUNE 2016 LINK EDITS**GVKEY 10221 (SWIFT ENERGY CO)****OLD:**

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19800101	19810723	0	0	00X	NU	C
19810724	20160429	66739	4340	01	LU	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19800101	19810723	0	0	00X	NR	C
19810724	20151218	66739	4340	01	LC	P
20151219	20160429	0	0	01	NR	P
20160514	99999999	0	0	02	NR	P

GVKEY 20245 (ONCOTHYREON INC)**OLD:**

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19870101	19870730	0	0	00X	NU	C
19911119	99999999	77205	11210	01	LU	P
19870731	19911118	0	0	01C	NU	C
19911119	99999999	77205	11210	01C	LX	N

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19870101	19870730	0	0	00X	NR	C
19911119	99999999	77205	11210	01	LC	P
19870731	19911118	0	0	01C	NR	C
19911119	20091030	77205	11210	01C	LX	N

GVKEY 20619 (WL ROSS HOLDING CORP)**OLD:**

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20140101	20140629	0	0	00X	NR	C
20140630	20140731	0	0	01	NR	P
20140801	20140804	0	0	01	NR	C
20140805	99999999	0	0	01	NR	N
20140805	99999999	14881	54902	02	LC	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20140101	20140629	0	0	00X	NR	C
20140630	20140731	0	0	01	NR	P
20140801	20140828	0	0	01	NR	C
20140829	99999999	0	0	01	NR	N
20140829	99999999	14881	54902	02	LC	P

GVKEY 21431 (CALIFORNIA RESOURCES CORP)**OLD:**

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20090101	20141127	0	0	00X	NR	C
20141128	20141130	0	0	01	NR	P
20141201	99999999	15029	55089	01	LC	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20090101	20141127	0	0	00X	NR	C
20141128	99999999	15029	55089	01	LC	P

GVKEY 111631 (DEX MEDIA INC)**OLD:**

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19960101	19980618	0	0	00X	NR	C
19980619	20081231	86109	34769	01	LC	P
20090101	20100129	0	0	01	NR	P
20100201	20130430	93240	53338	03	LC	P
20130501	99999999	13923	54409	03	LC	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19960101	19980618	0	0	00X	NR	C
19980619	20081231	86109	34769	01	LC	P
20090101	20100129	0	0	01	NR	P
20100201	20130430	93240	53338	03	LC	P
20130501	20160106	13923	54409	03	LC	P
20160107	99999999	0	0	03	NR	P

GVKEY 176899 (SANDRIDGE ENERGY INC)**OLD:**

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20020101	20071105	0	0	00X	NU	C
20071106	99999999	92421	52847	02	LC	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20060101	20071105	0	0	00X	NR	C
20071106	20160106	92421	52847	02	LC	P
20160107	99999999	0	0	02	NR	P

GVKEY 7883 (NEWPORT CORP)**OLD:**

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19730501	19780130	57534	3179	00X	LU	C
19780131	20160531	57534	3179	01	LU	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19730501	19780130	57534	3179	00X	LU	C
19780131	20160429	57534	3179	01	LU	P

GVKEY 14438 (ADT CORP)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20061001	20120930	0	0	00X	NR	C
20121001	20160531	13567	54174	01	LC	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20061001	20120930	0	0	00X	NR	C
20121001	20160429	13567	54174	01	LC	P

MAY 2016 LINK EDITS**GVKEY 62990 (AFFYMETRIX INC)**

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19950101	19960605	0	0	00X	NU	C
19960606	20160331	83616	14700	01	LU	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19950101	19960605	0	0	00X	NR	C
19960606	20160331	83616	14700	01	LC	P

GVKEY 1166 (ASM INTERNATIONAL NV)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19810101	19810511	0	0	00X	NR	C
19810512	99999999	11077	374	01	LC	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19810101	19810511	0	0	00X	NR	C
19810512	20150820	11077	374	01	LC	P
20150821	99999999	0	0	01	NR	P

GVKEY 8440 (PENN VIRGINIA CORP)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19630101	19670130	0	0	00X	NU	C
19670131	19721213	0	0	01	NU	P
19721214	99999999	61955	3730	01	LU	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19630101	19670130	0	0	00X	NR	C
19670131	19721213	0	0	01	NR	P
19721214	20160112	61955	3730	01	LC	P
20160113	99999999	0	0	01	NR	P

GVKEY 20259 (CHC GROUP LTD)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19890131	19911030	0	0	01C	NR	C
19911031	19911031	0	0	01C	NR	N
19931207	20080916	79969	12637	02	LC	P
20080917	20080930	0	0	02	NR	P
19911129	19931206	0	0	02C	NR	C
19931207	20080916	79969	12637	02C	LX	N
19980831	20080829	0	0	03	NR	N
19911031	20080930	0	0	03C	NR	J
20140117	20151210	14416	54708	05	LC	P
20151211	99999999	14416	54708	05	LC	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19890131	19911030	0	0	01C	NR	C
19911031	19911031	0	0	01C	NR	N
19931207	20080916	79969	12637	02	LC	P
20080917	20080930	0	0	03	NR	P
19911129	19931206	0	0	03C	NR	C
19931207	20080916	79969	12637	02C	LX	N
19980831	20080829	0	0	03	NR	N
19911031	20080930	0	0	03C	NR	J
20140117	20151210	14416	54708	05	LC	P
20151211	20160201	14416	54708	05	LC	P
20160202	99999999	0	0	05	NR	P

GVKEY 29433 (SPEED COMMERCE INC)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19920101	19931215	0	0	00X	NU	C
19931216	99999999	80001	12694	01	LU	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19920101	19931215	0	0	00X	NR	C
19931216	20160120	80001	12694	01	LC	P
20160121	99999999	0	0	01	NR	P

GVKEY 65376 (SIGA TECHNOLOGIES INC)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19960101	19970908	0	0	00X	NU	C
19970909	99999999	85401	15686	01	LU	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19960101	19970908	0	0	00X	NR	C
19970909	20150319	85401	15686	01	LC	P
20150320	99999999	0	0	01	NR	P

GVKEY 165768 (FREESEAS INC)**OLD:**

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20151216	99999999	91023	49999	01	LC	P
20040930	20080430	0	0	02	NR	N
20040930	20080430	0	0	03	NR	J

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20151216	20160422	91023	49999	01	LC	P
20160423	99999999	0	0	01	NR	P
20040930	20080430	0	0	02	NR	N
20040930	20080430	0	0	03	NR	J

GVKEY 170627 (MIDSTATES PETROLEUM CO INC)**OLD:**

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20070101	20120419	0	0	00X	NR	C
20120420	99999999	13349	54043	01	LC	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20070101	20120419	0	0	00X	NR	C
20120420	20160203	13349	54043	01	LC	P
20160204	99999999	0	0	01	NR	P

GVKEY 174312 (RHINO RESOURCE PARTNERS LP)**OLD:**

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20050401	20100929	0	0	00X	NR	C
20100930	99999999	12291	53506	01	LC	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20050401	20100929	0	0	00X	NR	C
20100930	20151217	12291	53506	01	LC	P
20151218	99999999	0	0	01	NR	P

GVKEY 4875 (FOXMEYER CORP)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19820401	19830711	0	0	00X	NR	C
19830712	19860314	67520	6168	01	LC	C
19860315	19941130	0	0	01	NR	C
19910829	19941012	76806	29608	01	LC	C
19941013	19941130	0	0	01	NR	C

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19820401	19830711	0	0	00X	NR	C
19830712	19860314	67520	6168	01	LC	C
19860315	19910828	0	0	01	NR	C
19910829	19941012	76806	29608	01	LC	C
19941013	19941130	0	0	01	NR	C

GVKEY 8975 (READING ENTERTAINMENT)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19820101	19831030	0	0	00X	NR	C
19831031	19831206	0	0	01	NR	P
19831207	19890930	14154	6659	01	LC	P
19891001	19891016	14154	6659	03	LC	C
19891017	20011231	14154	6659	03	LC	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19820101	19831030	0	0	00X	NR	C
19831031	19831206	0	0	01	NR	P
19831207	19890930	14154	6659	01	LC	P
19891001	19891016	14154	6659	01	LC	C
19891017	20011231	14154	6659	03	LC	P
20010101	20010131	0	0	03	NR	P

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GVKEY 16927 (NEW SOURCE ENERGY PRTRS LP)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20100101	20130207	0	0	00X	NR	C
20130208	99999999	13773	54321	01	LC	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20100101	20130207	0	0	00X	NR	C
20130208	20150831	13773	54321	01	LC	P
20150901	99999999	0	0	01	NR	P

GVKEY 20217 (POSTROCK ENERGY CORP)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19860601	19900130	0	0	00X	NR	C
19900131	19900928	0	0	02	NR	P
19990730	20060410	0	0	03	NR	P
20060411	20100305	76465	10462	03	LC	P
20100308	99999999	93310	53372	03	LC	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19860601	19900130	0	0	00X	NR	C
19900131	19900928	0	0	02	NR	P
19990730	20060410	0	0	03	NR	P
20060411	20100305	76465	10462	03	LC	P
20100308	20150909	93310	53372	03	LC	P
20150910	99999999	0	0	03	NR	P

GVKEY 181445 (6D GLOBAL TECHNOLOGIES)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20080101	20101214	0	0	00X	NR	C
20101215	20110301	12485	53627	01	LC	P
20110302	20141211	0	0	01	NR	P
20141212	99999999	12485	53627	01	LC	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20080101	20101214	0	0	00X	NR	C
20101215	20110301	12485	53627	01	LC	C
20110302	20141211	0	0	01	NR	C
20141212	20150910	12485	53627	01	LC	C
20150911	99999999	0	0	01	NR	C

GVKEY 187298 (DIREXION DAILY RUSSIA BU 3X)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20110101	20110524	0	0	00X	NR	C
20110525	20150109	12728	53101	01	LS	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20110101	20110524	0	0	00X	NR	C
20110525	99999999	12728	53101	01	LS	P

GVKEY 174876 (SIRONA DENTAL SYSTEMS INC)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20031001	20060620	0	0	00X	NR	C
20060621	20160331	85208	15564	01	LC	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20031001	20060620	0	0	00X	NR	C
20060621	20160226	85208	15564	01	LC	P

GVKEY 11515 (ZALE CORP)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19520401	19620130	0	0	00X	NR	C
19620131	19931020	0	0	01	NR	C
19931021	20140529	79672	12317	01	LC	C
20140530	99999999	0	0	01	NR	C

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19520401	19620130	0	0	00X	NR	C
19620131	19620701	0	0	01	NR	C
19620702	19870114	38287	24302	01	LC	C
19870115	19930830	0	0	01	NR	C
19930831	20140430	79672	12317	01	LC	C
20140501	99999999	0	0	01	NR	C

GVKEY 11515 (WILSON & CO-DEL)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19611101	19670130	0	0	00X	NU	C
19670131	19670904	0	0	01	NU	C
19670905	19720731	44919	24786	01	LU	C

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19611101	19640330	15448	22607	00X	LN	C
19640331	19670616	15448	22607	01	LC	C
19670617	19670904	0	0	01	NR	C
19670905	19720731	44919	24786	01	LC	C

GVKEY 11347 (WELBILT CORP)**OLD:**

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19740101	19740130	0	0	00X	NR	C
19740131	19931117	0	0	01	NR	C
19931118	19950127	79883	12590	01	LC	C
19950128	19950228	0	0	01	NR	C

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19640331	19640831	23288	4894	01	LC	C
19640901	19740130	23288	4894	01	LN	C
19740131	19880919	23288	4894	01	LC	C
19880920	19931117	0	0	01	NR	C
19931118	19950127	79883	12590	01	LC	C
19950128	19950228	0	0	01	NR	C

GVKEY 186945 (VAN RAALTE CO)**OLD:**

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19640331	19680730	0	0	01	NR	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19640331	19680730	15157	22585	01	LC	P

GVKEY 186914 (ALDENS INC)**OLD:**

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19640331	19641231	0	0	01	NR	C

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19640331	19641231	19668	22939	01	LC	C

GVKEY 1758 (ARMOUR & CO)**OLD:**

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19640331	19701231	0	0	01	NR	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19640331	19701228	10524	22198	01	LC	P

GVKEY 186921 (ATLANTIC COAST LINE RR CO)**OLD:**

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19640331	19670630	0	0	01	NR	C

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19640331	19670630	10591	22206	01	LC	C

GVKEY 2104 (BEAUNIT CORP)**OLD:**

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19640101	19640330	0	0	00X	NR	C
19640331	19670531	0	0	01	NR	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19640101	19640330	23296	23203	00X	LC	C
19640331	19670531	23296	23203	01	LC	P

GVKEY 186929 (BRACH (EJ) & SONS)**OLD:**

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19640331	19660429	0	0	01	NR	C

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19640331	19660429	38404	24314	01	LC	C

GVKEY 187086 (BRIGGS MANUFACTURING CO)**OLD:**

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19640331	19651130	0	0	01	NR	C

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19640331	19651019	10807	22226	01	LC	C
19651020	19651130	0	0	01	NR	C

GVKEY 187086 (CALUMET & HECLA INC)**OLD:**

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19640331	19680430	0	0	01	NR	C

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19640331	19680430	11033	22243	01	LC	C

GVKEY 187080 (CELOTEX CORP)**OLD:**

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19640331	19640831	0	0	01	NR	C

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19640331	19640831	17312	22767	01	LC	C

GVKEY 186931 (CHICAGO GREAT WESTERN RR CO)**OLD:**

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19640331	19661130	0	0	01	NR	C

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19640331	19661130	21469	23071	01	LC	C

GVKEY 186933 (CONDE NAST PUBLICATIONS LTD)**OLD:**

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19640331	19651130	0	0	01	NR	C

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19640331	19651130	16256	22673	01	LC	C

GVKEY 186935 (CONGOLEUM-NAIRN INC)**OLD:**

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19640331	19680830	0	0	01	NR	C

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19640331	19680830	11375	22272	01	LC	C

GVKEY 187077 (CONSOLIDATION COAL CO)**OLD:**

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19640331	19660831	0	0	01	NR	C

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19640331	19660831	11439	22277	01	LC	C

GVKEY 186912 (DREWRY LTD)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19640331	19651231	0	0	01	NR	C

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19640331	19651231	25339	23327	01	LC	C

GVKEY 4076 (DREXEL ENTERPRISES INC-UTAH)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19640101	19670130	0	0	00X	NU	C
19670131	19671229	0	0	01	NU	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19640101	19640929	40758	24481	00X	LC	C
19640930	19680628	40758	24481	01	LC	P

GVKEY 5696 (HOOKER CHEMICAL CORP)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19680329	19680628	0	0	01	NR	P
19680629	19790928	0	0	99X	NR	C

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19680329	19680628	23480	23214	01	LC	P
19680629	19790928	0	0	99X	NR	C

GVKEY 186917 (ISLAND CREEK COAL CO)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19660930	19661130	0	0	01	NR	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19640331	19671229	15536	22613	01	LC	P

GVKEY 186919 (KVP SUTHERLAND PAPER CO)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19640331	19660429	0	0	01	NR	C

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19640331	19660429	19772	22948	01	LC	C

GVKEY 186924 (NEW YORK CENTRAL RAILROAD)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19640331	19680131	0	0	01	NR	C

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19640331	19680131	13434	22436	01	LC	C

GVKEY 187087 (PARAMOUNT PICTURES CORP)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19640331	19660930	0	0	01	NR	C

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19640331	19660930	24176	23261	01	LC	C

GVKEY 186927 (PENICK & FORD LTD)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19640331	19650528	0	0	01	NR	C

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19640331	19650528	13805	22473	01	LC	C

GVKEY 186938 (PIKE CORP OF AMERICA)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19680329	19690131	0	0	01	NR	C

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19680329	19690102	43094	24657	01	LC	C

GVKEY 186944 (RELIANCE MANUFACTURING)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19640331	19650226	0	0	01	NR	C

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19640331	19650226	20511	23006	01	LC	C

GVKEY 186947 (ROCKWELL STANDARD CORP)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19640331	19670831	0	0	01	NR	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19640331	19670831	17654	22794	01	LC	P

GVKEY 186949 (ROYAL MCBEE CORP)**OLD:**

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19640331	19650226	0	0	01	NR	C

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19640331	19650226	21901	23110	01	LC	C

GVKEY 186950 (RUBEROID CO)**OLD:**

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19640331	19670428	0	0	01	NR	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19640331	19670428	19844	22953	01	LC	P

MARCH 2016 LINK EDITS**GVKEY 20967 (PARAGON OFFSHORE PLC)****OLD:**

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20110101	20140730	0	0	00X	NR	C
20140731	20140803	0	0	01	NR	P
20140804	99999999	14784	54942	01	LC	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20110101	20140730	0	0	00X	NR	C
20140731	20140803	0	0	01	NR	P
20140804	20151217	14784	54942	01	LC	P
20151218	99999999	0	0	01	NR	P

GVKEY 105475 (AVALON RARE METALS INC)**OLD:**

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20101222	99999999	12439	53603	01	LC	P
19980430	20101221	0	0	01C	NR	C
20101222	99999999	12439	53603	01C	LX	N

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20101222	20151217	12439	53603	01	LC	P
20151218	99999999	0	0	01	NR	P
19980430	20101221	0	0	01C	NR	C
20101222	20151217	12439	53603	01C	LX	N
20151218	99999999	0	0	01C	NR	N

GVKEY 16022 (ISHARES CORE MSCI TOTAL INTL)**OLD:**

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20121022	99999999	13608	54199	01	LS	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20121022	99999999	13608	37493	01	LS	P

GVKEY 16023 (ISHARES CORE MSCI EAFE ETF)**OLD:**

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20121022	99999999	13609	54199	01	LS	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20121022	99999999	13609	37493	01	LS	P

GVKEY 16025 (ISHARES CORE 1-5 USD BD ETF)**OLD:**

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20121022	99999999	13612	54199	01	LS	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20121022	99999999	13612	37493	01	LS	P

GVKEY 17777 (ISHARES MSCI USA MMNTUM FCTR)**OLD:**

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20130418	99999999	13851	54199	01	LS	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20130418	99999999	13851	37493	01	LS	P

GVKEY 17778 (ISHARES MSCI USA SIZE FACTOR)**OLD:**

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20130418	99999999	13847	54199	01	LS	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20130418	99999999	13847	37493	01	LS	P

GVKEY 17779 (ISHARES MSCI USA VALUE FACTR)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20130418	99999999	13850	54199	01	LS	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20130418	99999999	13850	37493	01	LS	P

GVKEY 17787 (ISHARES IBOND MAR 2016 CP EX)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20130419	99999999	13855	54199	01	LS	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20130419	99999999	13855	37493	01	LS	P

GVKEY 17788 (ISHARES IBOND MAR 2018 CP EX)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20130419	99999999	13854	54199	01	LS	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20130419	99999999	13854	37493	01	LS	P

GVKEY 17790 (ISHARES IBOND MAR 2020 CP EX)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20130419	99999999	13853	54199	01	LS	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20130419	99999999	13853	37493	01	LS	P

GVKEY 17791 (ISHARES IBOND MAR 2023 CP EX)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20130419	99999999	13852	54199	01	LS	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20130419	99999999	13852	37493	01	LS	P

GVKEY 18298 (ISHARES IBONDS MAR 2016 CORP)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20130710	99999999	14021	54199	01	LS	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20130710	99999999	14021	37493	01	LS	P

GVKEY 18308 (ISHARES IBONDS MAR 2018 CORP)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20130710	99999999	14022	54199	01	LS	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20130710	99999999	14022	37493	01	LS	P

GVKEY 18309 (ISHARES IBONDS MAR 2020 CORP)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20130710	99999999	14025	54199	01	LS	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20130710	99999999	14025	37493	01	LS	P

GVKEY 18310 (ISHARES IBONDS MAR 2023 CORP)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20130710	99999999	14023	54199	01	LS	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20130710	99999999	14023	37493	01	LS	P

GVKEY 18373 (ISHARES MSCI USA QUAL FACTOR)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20130718	99999999	14020	54199	01	LS	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20130718	99999999	14020	37493	01	LS	P

FEBRUARY 2016 LINK EDITS

GVKEY 15489 (KALOBOS PHARMACEUTICALS INC)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20090101	20130130	0	0	00X	NR	C
20130131	99999999	13755	54309	01	LC	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20090101	20130130	0	0	00X	NR	C
20130131	20151216	13755	54309	01	LC	P
20151217	99999999	0	0	01	NR	P

GVKEY 17810 (LIQUID HOLDINGS GROUP INC)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20120101	20130725	0	0	00X	NR	C
20130726	99999999	14053	54483	01	LC	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20120101	20130725	0	0	00X	NR	C
20130726	20151027	14053	54483	01	LC	P
20151028	99999999	0	0	01	NR	P

GVKEY 61298 (TEMPLETON RUSSIA & E EURO FD)

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19950401	19950912	0	0	00X	NU	C
19950913	20151231	82241	30952	01	LU	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19950401	19950912	0	0	00X	NR	C
19950913	20151120	82241	30952	01	LC	P
20151121	20151130	0	0	01	NR	P
20151201	20151231	0	0	99X	NR	C

GVKEY 179817 (VERSO CORP)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20030101	20080514	0	0	00X	NR	C
20080515	99999999	92670	53017	01	LC	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20050101	20080514	0	0	00X	NR	C
20080515	20150921	92670	53017	01	LC	P
20150922	99999999	0	0	01	NR	P

JANUARY 2016 LINK EDITS

GVKEY 66029 (MAGNUM HUNTER RESOURCES CORP)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19971231	20060828	0	0	01	NR	C
20060829	99999999	91419	51101	01	LC	C

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19971231	20060828	0	0	01	NR	C
20060829	20151110	91419	51101	01	LC	C
20151111	99999999	0	0	01	NR	C

GVKEY 133166 (CUBIC ENERGY INC)

Old:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19980701	20000330	0	0	00X	NU	C
20000331	20080803	0	0	01	NU	P
20080804	99999999	92763	53066	01	LC	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19980701	20000330	0	0	00X	NR	C
20000331	20080803	0	0	01	NR	P
20080804	20130716	92763	53066	01	LC	P
20130717	99999999	0	0	01	NR	P

DECEMBER 2015 LINK EDITS

GVKEY 122015 (HUDSON CITY BANCORP INC)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19980101	19990712	0	0	00X	NR	C
19990713	99999999	87070	16646	01	LC	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19980101	19990712	0	0	00X	NR	C
19990713	20151030	87070	16646	01	LC	P
20151031	99999999	0	0	01	NR	P

GVKEY 3082 (CITY NATIONAL CORP)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19810101	99999999	23916	1194	01	LC	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19810101	20151030	23916	1194	01	LC	P

GVKEY 26081 (KURA ONCOLOGY INC)**OLD:**

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20150101	20150929	0	0	00X	NR	C
20150930	99999999	0	0	01	NR	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20150101	20151104	0	0	00X	NR	C
20151105	99999999	15847	55484	01	LC	P

NOVEMBER 2015 LINK EDITS**GVKEY 143421 (WRIGHT MEDICAL GROUP NV)****OLD:**

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19990101	20010712	0	0	00X	NR	C
20010713	99999999	89046	41822	01	LC	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19990101	20010712	0	0	00X	NR	C
20010713	20151001	89046	41822	01	LC	P
20151002	99999999	12587	53686	01	LC	P

GVKEY 160181 AFFIRMATIVE INS HOLDINGS INC**OLD:**

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19990101	20040708	0	0	00X	NR	C
20040709	99999999	90273	45414	01	LC	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20020101	20040708	0	0	00X	NR	C
20040709	20120530	90273	45414	01	LC	P
20150531	99999999	0	0	01	NR	P

GVKEY 160780 (DESARROLLADORA HOMEX SA)**OLD:**

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20020101	20040628	0	0	00X	NR	C
20040629	99999999	90201	45275	90	LC	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20020101	20040628	0	0	00X	NR	C
20040629	20140430	90201	45275	90	LC	P
20140501	99999999	0	0	90	NR	P

GVKEY 3082 (CITY NATIONAL CORP)**OLD:**

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19810101	19810129	23916	1194	00X	LU	C
19810130	99999999	23916	1194	01	LU	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19810101	99999999	23916	1194	01	LC	P

OCTOBER 2016 LINK EDITS**GVKEY 160255 (HOSPIRA INC)****OLD:**

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19990101	20040429	0	0	00X	NR	C
20040430	20040502	0	0	01	NR	P
20040503	20150930	90110	45068	01	LC	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19990101	20040429	0	0	00X	NR	C
20040430	20040502	0	0	01	NR	P
20040503	20150902	90110	45068	01	LC	P

GVKEY 11538 (ALEXANDER'S HLDGS)**OLD:**

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19710101	19720830	0	0	00X	NR	C
19720831	19721213	0	0	01	NR	P
19721214	20121026	66747	4814	01	LC	P
20121027	99999999	0	0	01	NR	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19710101	19720830	0	0	00X	NR	C
19720831	19721213	0	0	01	NR	P
19721214	20121026	66747	4814	01	LC	P
20121027	20121031	0	0	01	NR	P
20150929	99999999	15648	55401	02	LC	P

GVKEY 178911 (ISHARES ASIA DEV REAL ESTATE)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20070101	20071115	0	0	00X	NU	C
20071116	20150831	92437	37493	01	LS	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20070101	20071115	0	0	00X	NU	C
20071116	20150821	92437	37493	01	LS	P
20150822	99999999	0	0	01	NR	P

SEPTEMBER 2015 LINK EDITS**GVKEY 6930 (NORTH AMERICAN PALLADIUM)**

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19680101	19820128	0	0	00X	NR	C
19931122	19980419	79853	12603	01	LC	C
19980420	20001012	0	0	01	NR	C
20001013	99999999	79853	12603	01	LC	C
19820129	19931121	0	0	01C	NR	C
19931122	19980419	79853	12603	01C	LX	N
19980420	20001012	0	0	01C	NR	N
20001013	99999999	79853	12603	01C	LX	N

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19680101	19820128	0	0	00X	NR	C
19931122	19980419	79853	12603	01	LC	C
19980420	20001012	0	0	01	NR	C
20001013	20150415	79853	12603	01	LC	C
20150416	99999999	0	0	01	NR	C
19820129	19931121	0	0	01C	NR	C
19931122	19980419	79853	12603	01C	LX	N
19980420	20001012	0	0	01C	NR	N
20001013	20150415	79853	12603	01C	LX	N
20150416	99999999	0	0	01C	NR	N

GVKEY 64169 (RENEWABLE ENERGY TRADE BOARD)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19950101	19961216	0	0	00X	NR	C
19961217	99999999	84343	15228	01	LC	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19950101	19961216	0	0	00X	NR	C
19961217	20130208	84343	15228	01	LC	P
20130209	99999999	0	0	01	NR	P

GVKEY 185263 (AMBOW EDUCATION HLDGS)**OLD:**

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20080101	20100805	0	0	00X	NR	C
20100806	99999999	12038	53480	90	LC	C

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20080101	20100805	0	0	00X	NR	C
20100806	20130322	12038	53480	90	LC	C
20130323	99999999	0	0	90	NR	C

GVKEY 003226 (COMCAST CORP)**OLD:**

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19740101	19740130	0	0	00X	NR	C
19740131	19931130	0	0	01	NR	P
19931201	20021031	0	0	01	NR	J
20021101	20021118	0	0	01	NR	P
20021119	99999999	89525	43613	01	LC	P
19820129	19861223	0	0	02	NR	N
19861224	19931130	11997	962	02	LC	N
19931201	20021031	11997	962	02	LC	P
20021101	20021118	11997	962	02	LC	J
20021119	99999999	89565	43613	02	LC	J
19991130	19991130	0	0	05	NR	J

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19740101	19740130	25022	962	00X	LC	C
19740131	19931130	25022	962	01	LC	P
19931201	20021031	25022	962	01	LC	J
20021101	20021118	25022	962	01	LC	P
20021119	99999999	89525	43613	01	LC	P
19820129	19861223	0	0	02	NR	N
19861224	19931130	11997	962	02	LC	N
19931201	20021031	11997	962	02	LC	P
20021101	20021118	11997	962	02	LC	J
20021119	99999999	89565	43613	02	LC	J
19991130	19991130	0	0	05	NR	J

AUGUST 2015 LINK EDITS

GVKEY 11446 (MEADWESTVACO CORP)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19491101	19620130	0	0	00X	NR	C
19620131	99999999	21186	21913	01	LC	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19491101	19620130	0	0	00X	NR	C
19620131	20150701	21186	21913	01	LC	P
20150702	99999999	0	0	01	NR	P

GVKEY 29830 (WESTROCK CO)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19921001	19940302	0	0	00X	NR	C
19940303	99999999	80361	12895	01	LC	P
19980430	20020830	0	0	02	NR	N

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19921001	19940302	0	0	00X	NR	C
19940303	20150701	80361	12895	01	LC	P
20150702	99999999	21186	21913	01	LC	P
19980430	20020830	0	0	02	NR	N

GVKEY 123455 (ALAMOS GOLD INC)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19970801	20000228	0	0	00X	NU	C
20030904	99999999	89845	44390	01	LC	P
20000229	20030903	0	0	01C	NU	C
20030904	99999999	89845	44390	01C	LX	N

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19970801	20000228	0	0	00X	NU	C
20030904	20150705	89845	44390	01	LC	P
20150706	99999999	13763	54315	01	LC	P
20000229	20030903	0	0	01C	NU	C
20030904	20150705	89845	44390	01C	LX	N
20150706	99999999	13763	54315	01C	LX	N

GVKEY 248819 (CBD ENERGY LTD)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20120701	20140612	0	0	00X	NR	C
20140613	99999999	14692	54885	01	LC	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20120701	20140612	0	0	00X	NR	C
20140613	20141113	14692	54885	01	LC	P
20141114	20141128	0	0	01	NR	P

GVKEY 12717 (ITUS CORP)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19841101	19860130	27167	6473	00X	LU	C
19860131	20030326	27167	6473	01	LU	C
20030327	99999999	0	0	01	NU	C

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19831230	20030326	27167	6473	01	LC	C
20030327	20150709	0	0	01	NR	C
20150710	99999999	27167	6473	01	LC	C

GVKEY 62541 (CORPORATE RESOURCE SVCS INC)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20020830	20130905	0	0	01	NR	P
20130906	99999999	14152	54553	01	LC	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20020830	20130905	0	0	01	NR	P
20130906	20150303	14152	54553	01	LC	P
20150304	99999999	0	0	01	NR	P

GVKEY 64844 (MIDWAY GOLD CORP)

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20080103	99999999	92540	52932	01	LC	P
19970530	20080102	0	0	01C	NU	C
20080103	99999999	92540	52932	01C	LX	N

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20080103	20150619	92540	52932	01	LC	P
19970530	20080102	0	0	01C	NR	C
20080103	99999999	92540	52932	01C	LX	N
20150620	99999999	0	0	99X	NR	C

GVKEY 185193 (BACTERIN INTL HOLDINGS INC)**OLD:**

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20100101	20100729	0	0	00X	NR	C
20100730	20110306	0	0	01	NR	P
20110307	99999999	12592	53689	01	LC	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20100101	20100729	0	0	00X	NR	C
20100730	20110306	0	0	01	NR	P
20110307	20150408	12592	53689	01	LC	P
20150409	99999999	0	0	01	NR	P

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 accbin`
- 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.