

CRSP/COMPUSTAT RELEASE NOTES

JANUARY 2019 QUARTERLY UPDATE

ABOUT THE JANUARY 2019 CRSP/COMPUSTAT MERGED DATABASE

The cut date for these release notes is 20190112. This shipment includes the following version of the CRSP/Compustat Merged Database:

- CMZ20190111– 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	11.08 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 4,000 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 QUARTERLY	
Total Compustat Records	49,018
Total GVKEY Companies	46,820
Total GVKEYX Indexes	2,198
Total GVKEY/IID Securities	60,223
Total CRSP Securities Linked	29,390
Total GVKEYs in Link	46,777
Total Link Records	103,418
Total Link Records with a Link to CRSP	34,121
Database Size	11.08GB

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	19251231-20190111	1-24549
Monthly trading calendar	19251231-20231231	1-1177
Annual trading calendar	19251231-20201231	1-96
Quarterly trading calendar	19251231-20191231	1-377
Semi-Annual trading calendar	19251231-20191231	1-189
Weekly trading calendar	19260102-20190111	1-4854

JANUARY 2019 LINK EDITS

GVKEY 109186 SONIC FOUNDRY INC

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19961001	19980421	0	0	00X	NU	C
19980422	99999999	85953	34728	01	LU	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19980422	20181231	85953	34728	01	LC	P

GVKEY 215422 MOWI ASA

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20081031	20140127	0	0	90	NR	P
20140128	99999999	14394	54699	90	LC	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20081031	20140127	0	0	90	NR	P
20140128	20170309	14394	54699	90	LC	P
20170310	99999999	0	0	90	NR	P

DECEMBER 2018 LINK EDITS

GVKEY 63332 DYNARESOURCE INC

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19960731	99999999	0	0	01	NP	C

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19960731	99999999	0	0	01	NR	C

GVKEY 146432 SCOR HOLDING SWITZERLAND AG

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20000101	20011210	0	0	00X	NP	C
20011211	20080104	89249	42514	90	LC	P
20080105	99999999	0	0	90	NR	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20000101	20011210	0	0	00X	NR	C
20011211	20080104	89249	42514	90	LC	P
20080105	99999999	0	0	90	NR	P

GVKEY 149092 IMPAC MEDICAL SYSTEMS INC

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19991001	20021119	0	0	00X	NP	C
20021120	20050404	89569	43685	01	LC	P
20050405	20050429	0	0	01	NR	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19991001	20021119	0	0	00X	NR	C
20021120	20050404	89569	43685	01	LC	P
20050405	20050429	0	0	01	NR	P

GVKEY 179781 IPATH GEMS INDEX ETN

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20080430	99999999	0	0	01	NP	C

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20080430	99999999	0	0	01	NR	C

GVKEY 184259 S&W SEED CO

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20070701	20100527	0	0	00X	NP	C
20100528	20100531	0	0	01	NR	P
20100601	20100613	0	0	01	NR	C
20100614	20100630	0	0	01	NR	N
20100614	99999999	93434	53427	02	LC	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20070701	20100527	0	0	00X	NR	C
20100528	20100531	0	0	01	NR	P
20100601	20100613	0	0	01	NR	C
20100614	20100630	0	0	01	NR	N
20100614	99999999	93434	53427	02	LC	P

GVKEY 23184 ISHARES TR EDGE US FIXD INCM

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20150227	20180204	17470	54364	01	LS	P
20180205	99999999	17674	56075	01	LS	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20150227	20180204	17470	54364	01	LS	P
20180205	99999999	17674	37493	01	LS	P

GVKEY 32429 ISHRS IBD DC 2027 TM CP ETF

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20170701	20170913	0	0	00X	NR	C
20170914	99999999	16954	56075	01	LS	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20170701	20170913	0	0	00X	NR	C
20170914	99999999	16954	37493	01	LS	P

GVKEY 32653 ISHRS US DIV AND BUYBACK ETF

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20171109	99999999	17518	56075	01	LS	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20171109	99999999	17518	37493	01	LS	P

GVKEY 33252 ISHRS IBND DC 2024 TR MN BND

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20180322	99999999	17513	56075	01	LS	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20180322	99999999	17513	37493	01	LS	P

GVKEY 33306 ISHRS U.S. INFRSTRCTR ETF

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20180405	99999999	17514	56075	01	LS	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20180405	99999999	17514	37493	01	LS	P

GVKEY 33325 ISHARES MSCI USA SMLL CP ESG

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20180412	99999999	17512	56075	01	LS	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20180412	99999999	17512	37493	01	LS	P

GVKEY 33739 ISHARE RBTC ARTFCL INTLG-ETF

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20180628	99999999	17931	56075	01	LS	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20180628	99999999	17931	37493	01	LS	P

GVKEY 34172 ISHARES IBDS DEC 28 TRM ETF

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20180920	99999999	18080	56075	01	LS	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20180920	99999999	18080	37493	01	LS	P

GVKEY 34315 ISHARES ESG US AGG BD ETF

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20181023	99999999	18174	56075	01	LS	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20181023	99999999	18174	37493	01	LS	P

GVKEY 15111 RPT REALTY

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19880101	19881227	0	0	00X	NU	C
19881228	99999999	75416	21995	01	LU	P
20021129	20051230	0	0	02	NU	J
20040630	20051230	0	0	03	NU	J

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19880101	19881227	0	0	00X	NU	C
19881228	20181130	75416	21995	01	LC	P
20021129	20051230	0	0	02	NU	J
20040630	20051230	0	0	03	NU	J

GVKEY 19417 ADVANZ PHARMA CORP

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20130101	20131230	0	0	00X	NR	C
20131231	20150628	0	0	01	NR	P
20150629	99999999	15418	55304	01	LC	P
20131231	99999999	15418	55304	01C	LX	N

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20130101	20131230	0	0	00X	NR	C
20131231	20150628	0	0	01	NR	P
20150629	20180608	15418	55304	01	LC	P
20180609	99999999	0	0	01	NR	P
20131231	20181130	15418	55304	01C	LX	N

NOVEMBER 2018 LINK EDITS**GVKEY 034224 INNOVATOR PWR BUFF OCT ETF**

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
0	0	0	0	01	NU	C

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20181001	99999999	18166	55239	01	LS	P

GVKEY 034226 INNOVATOR ULTRA BUFF OCT ETF

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
0	0	0	0	01	NU	C

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20181001	99999999	18167	55239	01	LS	P

GVKEY 34245 COLUMBIA MS MUN INCM ETF

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
0	0	0	0	01	NU	C

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20181010	99999999	18153	55597	01	LS	P

GVKEY 34229 LEADERSHRS ALPHAFACT EQ ETF

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
0	0	0	0	01	NU	C

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20181002	99999999	18186	56323	01	LS	P

GVKEY 034236 ANAPLAN INC

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
0	0	0	0	01	NU	C

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20181012	99999999	18141	56538	01	LS	P

GVKEY 034248 INVESCO BS 2021 USD EMD ETF

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
0	0	0	0	01	NU	C

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20181004	99999999	18173	56349	01	LS	P

GVKEY 034249 INVESCO BS 2024 USD EMD ETF

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
0	0	0	0	01	NU	C

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20181004	99999999	18168	56349	01	LS	P

GVKEY 034250 INVESCO BS 2023 USD EMD ETF

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
0	0	0	0	01	NU	C

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20181004	99999999	18169	56349	01	LS	P

GVKEY 034251 INVESCO BS 2022 USD EMD ETF

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
0	0	0	0	01	NU	C

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20181004	99999999	18170	56349	01	LS	P

GVKEY 034252 GOLDMAN S INFL PROT BD ETF

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
0	0	0	0	01	NU	C

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20181004	99999999	18161	55415	01	LS	P

GVKEY 034253 WESTERN ASSET TR ETF

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
0	0	0	0	01	NU	C

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20181004	99999999	18216	55505	01	LS	P

GVKEY 034260 OFS CREDIT COMPANY INC

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
0	0	0	0	01	NU	C

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20181005	99999999	18207	56566	01	LC	P

GVKEY 34261 FIRST TRUST IPOX EEO ETF

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
0	0	0	0	01	NU	C

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20181005	99999999	18196	52262	01	LS	P

GVKEY 034271 FRANKLIN FTSE SA ETF

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
0	0	0	0	01	NU	C

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20181011	99999999	18159	55598	01	LS	P

GVKEY 034272 FRANKLIN FTSE SAUDI ARAB ET

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
0	0	0	0	01	NU	C

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20181011	99999999	18160	55598	01	LS	P

GVKEY 034273 FRANKLIN FTSE LATN AMRCA ETF

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
0	0	0	0	01	NU	C

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
20181011	99999999	18158	55598	01	LS	P

GVKEY 25124 LINDE PLC

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19910101	19920629	0	0	00X	NU	C
19920630	19920705	0	0	01	NU	P
19920706	99999999	77768	29540	01	LU	P

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19910101	19920629	0	0	00X	NR	C
19920630	19920705	0	0	01	NR	P
19920706	20181030	77768	29540	01	LC	P
20181031	99999999	18143	56540	01	LC	P

GVKEY 025874 PETROQUEST ENERGY INC

OLD:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19920101	19920130	0	0	00X	NR	C
19921026	99999999	78186	11777	01	LC	P
19920131	19921025	0	0	01C	NR	C
19921026	20010131	78186	11777	01C	LX	N

NEW:

LINKDT	LINKENDDT	LPERMNO	LPERMCO	LIID	LINKTYPE	LINKPRIM
19920101	19920130	0	0	00X	NR	C
19921026	19990505	78186	11777	01	LC	P
19990506	19991222	0	0	01	NR	P
19991223	20180504	78186	11777	01	LC	P
20180505	99999999	0	0	01	NR	P
19920131	19921025	0	0	01C	NR	C
19921026	20010131	78186	11777	01C	LX	N

STEPS TO INSTALL:

- From the directory containing your downloaded zip file, right click (in Windows) or run File Roller (in Red Hat)
- 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)
- 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

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.