FEE APPENDIX AMENDMENT TO BLOOMBERG DATALICENSE (PER SECURITY) PRICING SCHEDULE OF SERVICES

This Fee Appendix Amendment (the "Amendment") to the Bloomberg Datalicense (Per Security) Pricing Schedule of Services under the same Account as this Amendment (the "Schedule") to Bloomberg Per Security Datalicense Agreement No. **2988995** (the "Agreement"), is between **BLOOMBERG FINANCE L.P.** ("Licensor") and **COUNTY OF ORANGE** ("Licensee"). Capitalized terms used herein but not otherwise defined shall have the meanings set forth in the Agreement or the Schedule, as applicable.

For good and valuable consideration, the receipt of which hereby is acknowledged, the parties agree to vary the terms of the Schedule as follows:

- 1. Paragraph 2: Delete the first sentence of paragraph 2 and replace with the following sentence:
 - "The term of the Schedule shall commence on April 1, 2021 and shall remain in full force and effect through March 31, 2023."
- 2. The fee appendix to the Schedule is hereby deleted in its entirety and replaced with the "Fee Appendix" set forth in Exhibit A to this Amendment. All prices charged by Licensor (including, but not limited to, the minimum monthly charge) shall be updated accordingly and such updated prices shall apply beginning the month that this Amendment is accepted by Licensor. For the avoidance of doubt, upon any renewal of the Schedule, Licensor's then-current Fee Appendix shall apply.
- 3. The following definitions shall apply as used in the Fee Appendix:
 - (a) "Data Fees" shall mean the amounts indicated in the Fee Appendix calculated in accordance herewith based on the amount and type of Data provided to Licensee during the applicable billing period.
 - (b) "Division", if not specified in the Schedule, shall be the division (i.e., buy-side, sell-side or other business unit) of Licensee determined by Licensor in accordance with Licensor's standard practices.
 - (c) "Request Services" shall mean the delivery modes for Data made available by Licensor from time to time. As of the date hereof, the Request Services consist of Scheduled, Ad Hoc and Bulk, each as described in the Fee Appendix.
 - (d) "Schedule Term", if not defined in the Schedule, shall mean each two-year term of the Schedule (including any renewal terms).
- 4. Nothing in the Services shall constitute or be construed as an offering of financial instruments or as investment advice or investment recommendations (i.e., recommendations as to whether or not to "buy", "sell", "hold", or to enter or not to enter into any other transaction involving any specific interest or interests) by Licensor or its affiliates or a recommendation as to an investment or other strategy by Licensor or its affiliates. No aspect of the Services is based on the consideration of Licensee's individual circumstances, and data and other information available via the Services should not be considered as information sufficient upon which to base an investment decision. Licensor and its affiliates do not express an opinion on the future or expected value of any security or other interest and do not explicitly or implicitly recommend or suggest an investment strategy of any kind. The Services are not and shall not be construed as tax, accounting, legal or regulatory advice or opinions, or sufficient to satisfy any tax, accounting, legal or regulatory requirements. Licensee is solely responsible for the selection and use of appropriate parameters, inputs, models, formulas and data for meeting its tax, accounting, legal or regulatory requirements. Without limiting the foregoing, Licensee acknowledges and agrees that the Services may include indices, rates or other values (collectively, "Values") that could be considered 'benchmarks' under the EU benchmark regulation and/or similar regulation (collectively, "BMR") if used in a regulated manner and unless expressly agreed in writing by Licensor or an affiliate of Licensor and/or by any applicable third party administrator of such Values, Licensee shall not use such Values in any manner that could be construed as regulated 'use' as a benchmark under the BMR, including use to determine the value of financial instruments or to measure the performance of an investment fund for the purpose of tracking the return of such Value or of defining the asset allocation of a portfolio or of computing performance fees.

Each party represents that the person signing on its behalf has the legal right and authority to execute, enter into and bind such party to the commitments and obligations set forth herein.

Except as set forth in this Amendment, the Schedule shall remain unchanged and in full force and effect.

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Agreed to by:
COUNTY OF ORANGE
Company Name

Agreed to by:
BLOOMBERG FINANCE L.P.
By: BLOOMBERG (GP) FINANCE LLC,
General Partner

Signature (Duty authorized signatory, officer, partner or proprietor)

Name (Please type or print)

February 17 2021

Date
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Approved As To Form

Office of the County Counsel

Orange County, CA

By: Ronald T. Magseysay, Deputy

2-17-2021

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EXHIBIT A

BLOOMBERG DATALICENSE (PER SECURITY) PRICING SCHEDULE OF SERVICES

FEE APPENDIX

General Terms and Fees

- 1) The minimum monthly fee under this Schedule (the "Monthly Minimum") shall be \$1,000, which may be satisfied by fees for Data requested on a Scheduled or Ad Hoc basis, but not by any fees for Data requested on a Bulk basis.
- 2) Licensor may give Licensee the benefit of reducing and/or re-allocating certain fees payable under this Schedule if Licensee and/or any affiliate of Licensee in the same Licensor firm number request the same Data for use in the Division specified in this Schedule ("Optimization"). Licensee acknowledges that any Optimization shall be subject to and in accordance with Licensor's standard practices, and that Optimization may not apply to all types of Data or Data Categories (as defined below) and/or across different Request Services. Licensee shall notify Licensor in writing if it does not wish to participate in Optimization for this Schedule, in which event Licensee may thereafter participate in Optimization only on renewal of this Schedule with no less than sixty (60) days' prior written notice to Licensor.
- 3) Notwithstanding anything to the contrary in this Schedule, the Data Fees shall be billed monthly in arrears for Data requested on a Scheduled or Ad Hoc basis and quarterly in advance for Data requested on a Bulk basis. All amounts displayed on this Fee Appendix are in U.S. dollars.
- 4) If this Schedule is terminated for any reason prior to completion of a Schedule Term, without limiting Licensor's other rights, Licensee shall pay an early termination charge equal to 50% of the average monthly Data Fees owed to Licensor pursuant to this Schedule for Data requested on a Scheduled and/or Ad Hoc basis for the three-month period immediately preceding the date of termination, or if this Schedule was billable for fewer than three months, such shorter period, multiplied by the number of months remaining in the then-current Schedule Term.

Scheduled Terms

The Data Fees for Data requested on a Scheduled basis shall be determined each month in accordance with the Scheduled Fee Tables below based on the cumulative number of unique securities for which Licensee requested Data in each Data Category and Asset Type (if applicable) under this Schedule during the immediately preceding four calendar months or, if Licensee has requested Data on a Scheduled basis for fewer than four calendar months, such shorter period, subject to the following:

- 1) If Licensee participates in Optimization, (a) the applicable band in the Scheduled Fee Tables below shall be determined each calendar month based on the number of unique securities for which Licensee and its affiliates in the same Licensor firm number requested Data in each Data Category and Asset Type (if applicable) for use in the Division specified in this Schedule and (b) the Data Fees in the applicable band and the Access Fees shall be divided proportionately among Licensee and such affiliates' accounts;
- 2) If Licensee's requests (or, if applicable under Optimization, Licensee's and its affiliates' requests together) exceed the highest security band shown in the Scheduled Fee Table below in a month for a given Data Category and Asset Type (if applicable) in a month, Licensee shall be deemed to agree to Licensor's then-prevailing rates for such additional number of securities; and
- 3) If Licensee makes (or, if applicable under Optimization, Licensee and its affiliates together make) more than one request per security per day for a given Data Category and Asset Type (if applicable) in a calendar month, each additional request will be charged the applicable Access Fee set forth in the Scheduled Fee Tables below.

For purposes of this Fee Appendix, "Asset Type" and "Data Category" shall mean the asset types and data categories identified in the Scheduled Fee Tables below or as may be added by Licensor from time to time. For the avoidance of doubt, no pro rata adjustment shall be applied if Licensee has accrued fewer than four calendar months' use of the Services.

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Ad Hoc Terms

- The Data Fees for Data requested on an Ad Hoc basis shall be determined each month in accordance with the Ad Hoc Fee Tables set forth below.
- 2) If Licensee requests Data from an Applicable Data Category (defined below) for a security on an Ad Hoc basis and does not request such Data on an Ad Hoc basis in three separate months during the following eleven-month period, Licensee shall be responsible to pay the Monthly Unique Security Charge for such Data as if Licensee had requested such Data in three separate months (the "Refresh Charges"). Licensor may give Licensee the benefit of reducing the Refresh Charges to account for natural turnover in Licensee's portfolios pursuant to its standard practices. "Applicable Data Category" shall mean Security Master, Corporate Structure, Capital Structure, Regulatory & Compliance, MiFIR Transparency, IFRS 9 SPPI, CBE, HQLA, Collateral Tagging, US Withholding Tax, Investor Protection, Basic Tax, UK MiFIR, Benchmark Regulation, FRTB RFET, SSFA, Regulatory Data Base and Packaged, Default Risk, ECL, Investor Analytics, Securities Financing Transactions Regulation, Security Ownership, Supply Chain, Environmental, Social & Governance and any new Data Category as may be added by Licensor from time to time.
- 3) In addition to any other termination charge(s) set forth in this Schedule, if this Schedule is terminated or not renewed for any reason, Licensee shall be responsible for 50% of the Refresh Charges that would have otherwise become payable after the termination date.

Bulk Terms

- 1) Subject to availability, the Data Fees for Data requested on a Bulk basis shall be determined in accordance with (a) the applicable Bulk Amendment to this Schedule if Licensee and Licensor execute a Bulk Amendment or (b) the fees set forth on a portal through which Licensee has subscribed to such Data.
- 2) If this Schedule or a subscription to a Bulk file is terminated for any reason prior to completion of a Schedule Term, without limiting Licensor's other rights, Licensee shall pay an early termination charge in an amount equal to 50% of the charges calculated in accordance with this Schedule for all terminated Bulk subscriptions for the balance of the then-current Schedule Term.

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Scheduled Fee Tables

(Annual Fees (in US\$); Billed Monthly in Arrears)

DATA CATEGORY: SECURITY MASTER AND PACKAGED FIELDS

Number of Unique Securities				Asset Type			
Band	ABS/CMO/CMBS/ Whole Loan	Equity	Fixed Income	Listed Derivatives	Mortgage Pools	Municipals	Curve Tenors
1 – 25	\$366	\$261	\$523	\$209	\$78	\$235	\$40
26 - 50	\$732	\$523	\$1,045	\$418	\$157	\$470	\$115
51 - 100	\$1,463	\$1,045	\$1,829	\$836	\$314	\$941	\$225
101 - 250	\$3,658	\$2,613	\$3,658	\$2,090	\$784	\$2,351	\$525
251 - 500	\$7,315	\$5,225	\$7,315	\$4,180	\$1,306	\$4,703	\$1,125
501 - 1000	\$14,630	\$10,450	\$14,630	\$8,360	\$2,613	\$9,405	\$2,250
1,001 - 2,500	\$36,575	\$26,125	\$36,575	\$15,675	\$6,531	\$23,513	\$4,725
2,501 - 5,000	\$73,150	\$52,250	\$73,150	\$31,350	\$13,063	\$47,025	\$10,125
5,001 - 7,500	\$109,725	\$78,375	\$109,725	\$47,025	\$19,594	\$70,538	\$16,875
7,501 – 10,000	\$146,300	\$104,500	\$146,300	\$62,700	\$26,125	\$94,050	\$23,625
10,001 - 15,000	\$219,450	\$130,625	\$219,450	\$94,050	\$39,188	\$141,075	\$30,375
15,001 - 20,000	\$292,600	\$156,750	\$292,600	\$125,400	\$52,250	\$188,100	\$42,525
20,001 - 25,000	\$365,750	\$182,875	\$365,750	\$156,750	\$65,313	\$235,125	\$54,675
25,001 - 30,000	\$438,900	\$209,000	\$438,900	\$188,100	\$78,375	\$282,150	\$66,825
30,001 - 40,000	\$585,200	\$261,250	\$585,200	\$250,800	\$104,500	\$313,500	\$85,050
40,001 - 50,000	\$731,500	\$313,500	\$731,500	\$282,150	\$130,625	\$339,625	\$109,350
50,001 - 100,000	\$783,750	\$391,875	\$940,500	\$313,500	\$209,000	\$365,750	\$182,250

Packaged fields for a unique security are not charged when received together with any other billable fields for the security.

DATA CATEGORY: PRICING FIELDS

Number of Unique Securities				Asset Type			
Band	ABS/CMO/CMBS/ Whole Loan	Equity	Fixed Income	Listed Derivatives	Mortgage Pools	Municipals	Curve Tenors
1 – 25	\$183	\$52	\$131	\$52	\$42	\$26	\$350
26 - 50	\$366	\$105	\$261	\$105	\$84	\$52	\$1,025
51 - 100	\$732	\$209	\$523	\$209	\$167	\$105	\$2,025
101 - 250	\$1,829	\$523	\$1,306	\$523	\$418	\$261	\$4,725
251 - 500	\$3,658	\$1,045	\$2,613	\$1,045	\$836	\$523	\$10,125
501 - 1000	\$7,315	\$2,090	\$5,225	\$2,090	\$1,672	\$1,045	\$20,250
1,001 - 2,500	\$18,288	\$5,225	\$13,063	\$5,225	\$4,180	\$2,613	\$42,000
2,501 - 5,000	\$36,575	\$10,450	\$26,125	\$10,450	\$8,360	\$5,225	\$90,000
5,001 - 7,500	\$54,863	\$15,675	\$39,188	\$15,675	\$12,540	\$7,838	\$150,000
7,501 – 10,000	\$73,150	\$20,900	\$52,250	\$20,900	\$16,720	\$10,450	\$210,000
10,001 - 15,000	\$109,725	\$31,350	\$78,375	\$31,350	\$25,080	\$13,063	\$277,500
15,001 - 20,000	\$146,300	\$41,800	\$104,500	\$41,800	\$33,440	\$15,675	\$388,500
20,001 - 25,000	\$182,875	\$47,025	\$130,625	\$47,025	\$41,800	\$18,288	\$499,500
25,001 - 30,000	\$219,450	\$52,250	\$156,750	\$52,250	\$50,160	\$20,900	\$610,500
30,001 - 40,000	\$266,475	\$57,475	\$209,000	\$57,475	\$66,880	\$26,125	\$777,000
40,001 - 50,000	\$313,500	\$62,700	\$235,125	\$62,700	\$83,600	\$31,350	\$999,000
50,001 - 100,000	\$365,750	\$67,925	\$261,250	\$67,925	\$109,725	\$36,575	\$1,665,000

DATA CATEGORY: SNAPSHOT PRICING

Number of Unique Securities	Asset Type						
Band	ABS/CMO/CMBS/ Whole Loan	Equity	Fixed Income	Listed Derivatives	Mortgage Pools	Municipals	
1 – 25	\$392	\$92	\$287	\$92	\$92	\$40	
26 - 50	\$557	\$183	\$575	\$183	\$181	\$78	
51 - 100	\$1,097	\$366	\$1,138	\$366	\$358	\$154	
101 - 250	\$2,704	\$905	\$2,616	\$905	\$805	\$376	
251 - 500	\$5,330	\$1,792	\$5,173	\$1,792	\$1,609	\$745	
501 - 1000	\$10,502	\$3,621	\$10,231	\$3,621	\$3,219	\$1,473	
1,001 - 2,500	\$25,864	\$9,053	\$23,852	\$9,053	\$8,047	\$3,605	
2,501 - 5,000	\$50,944	\$18,105	\$46,555	\$18,105	\$16,093	\$7,054	
5,001 - 7,500	\$75,240	\$27,157	\$68,970	\$27,157	\$24,140	\$10,581	
7,501 – 10,000	\$98,753	\$36,209	\$89,661	\$36,209	\$32,186	\$13,951	
10,001 - 15,000	\$145,778	\$54,314	\$127,595	\$54,314	\$48,279	\$17,634	
15,001 - 20,000	\$188,100	\$72,419	\$165,528	\$71,687	\$64,372	\$21,005	
20,001 - 25,000	\$227,288	\$82,294	\$201,163	\$81,379	\$80,465	\$24,296	
25,001 - 30,000	\$272,745	\$91,620	\$234,498	\$90,523	\$96,558	\$27,275	
30,001 - 40,000	\$326,040	\$100,216	\$294,272	\$99,484	\$128,744	\$33,858	
40,001 - 50,000	\$376,200	\$109,725	\$316,113	\$107,896	\$160,930	\$40,755	
50,001 - 100,000	\$438,900	\$118,869	\$344,850	\$117,040	\$212,135	\$47,025	
Access Fee: \$0.03 for a	II Asset Types		1				

DATA CATEGORY: DERIVED FIELDS*

Number of Unique Securities		Asset Type						
Band	ABS/CMO/CM BS/Whole Loan	Equity	Fixed Income	Listed Derivatives	Mortgage Pools	Municipals	Curve Tenors	
1 – 25	\$125	\$78	\$125	\$105	\$125	\$125	\$350	
26 - 50	\$251	\$157	\$251	\$209	\$251	\$251	\$1,025	
51 - 100	\$502	\$314	\$502	\$418	\$502	\$502	\$2,025	
101 - 250	\$1,254	\$784	\$1,254	\$1,045	\$1,254	\$1,254	\$4,725	
251 - 500	\$2,508	\$1,568	\$2,508	\$2,090	\$2,508	\$2,508	\$10,125	
501 - 1000	\$5,016	\$3,135	\$5,016	\$4,180	\$5,016	\$5,016	\$20,250	
1,001 - 2,500	\$12,540	\$7,838	\$12,540	\$10,450	\$12,540	\$12,540	\$42,000	
2,501 - 5,000	\$25,080	\$15,675	\$25,080	\$20,900	\$25,080	\$25,080	\$90,000	
5,001 - 7,500	\$37,620	\$23,513	\$37,620	\$31,350	\$37,620	\$37,620	\$150,000	
7,501 – 10,000	\$50,160	\$31,350	\$50,160	\$41,800	\$50,160	\$50,160	\$210,000	
10,001 - 15,000	\$75,240	\$47,025	\$75,240	\$62,700	\$75,240	\$75,240	\$277,500	
15,001 - 20,000	\$100,320	\$62,700	\$100,320	\$83,600	\$100,320	\$100,320	\$388,500	
20,001 - 25,000	\$125,400	\$78,375	\$125,400	\$104,500	\$125,400	\$125,400	\$499,500	
25,001 - 30,000	\$150,480	\$94,050	\$150,480	\$125,400	\$150,480	\$150,480	\$610,500	
30,001 - 40,000	\$200,640	\$109,725	\$200,640	\$130,625	\$200,640	\$200,640	\$777,000	
40,001 - 50,000	\$250,800	\$125,400	\$250,800	\$146,300	\$250,800	\$250,800	\$999,000	
50,001 - 100,000	\$313,500	\$141,075	\$313,500	\$167,200	\$313,500	\$313,500	\$1,665,000	

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DATA CATEGORY: HISTORICAL TIME SERIES OR END OF DAY HISTORICAL REQUESTS

Number of Unique Securities	Asset Typ	е
Band	All Assets (excluding Curve Tenor)	Curve Tenor
1 – 25	\$157	\$900
26 - 50	\$314	\$2,600
51 - 100	\$627	\$5,200
101 - 250	\$1,568	\$12,000
251 - 500	\$3,135	\$26,000
501 - 1000	\$6,270	\$52,000
1,001 - 2,500	\$15,675	\$108,500
2,501 - 5,000	\$31,350	\$232,500
5,001 - 7,500	\$47,025	\$387,500
7,501 – 10,000	\$62,700	\$542,500
10,001 - 15,000	\$94,050	\$700,000
15,001 - 20,000	\$125,400	\$980,000
20,001 - 25,000	\$156,750	\$1,260,000
25,001 - 30,000	\$188,100	\$1,540,000
30,001 - 40,000	\$250,800	\$1,960,000
40,001 - 50,000	\$313,500	\$2,520,000
50,001 - 100,000	\$365,750	\$4,200,000

Data Type	Monthly Unique Security Charge	Monthly Maintenance Security Charge	Access Fee
Intraday Trades and Quotes	\$26.13 per curve tenor \$5.23 for fixed income or equities	\$4.18 per curve tenor \$0.52 for fixed income or equities	\$0.03 for fixed income and each curve tenor \$0.01 for equities

DATA CATEGORY: CREDIT RISK, ESTIMATES, CORPORATE ACTIONS

Number of Unique Securities****			Data Ca	tegory	
Band	Estimates	Corporate Actions*	Credit Risk – Corporate Structure	Credit Risk – Capital Structure**	Credit Risk – Regulatory Compliance**
1 – 25	\$523	\$84	\$522	\$84	\$84
26 - 50	\$1,045	\$167	\$1,488	\$167	\$167
51 - 100	\$2,090	\$334	\$2,913	\$334	\$334
101 - 250	\$5,225	\$836	\$6,650	\$836	\$836
251 - 500	\$10,450	\$1,672	\$12,528	\$1,672	\$1,672
501 - 1000	\$20,900	\$3,344	\$21,924	\$3,344	\$3,344
1,001 - 2,500	\$48,767	\$8,360	\$43,848	\$8,360	\$8,360
2,501 - 5,000	\$62,700	\$16,720	\$78,300	\$16,720	\$16,720
5,001 - 7,500	\$73,150	\$25,080	\$117,450	\$25,080	\$25,080
7,501 – 10,000	\$83,600	\$33,440	\$127,890	\$33,440	\$33,440
10,001 - 15,000	\$94,050	\$50,160	\$146,160	\$50,160	\$50,160
15,001 - 20,000	\$104,500	\$66,880	\$204,624	\$66,880	\$66,880
20,001 - 25,000	\$114,950	\$83,600	\$234,900	\$83,600	\$83,600
25,001 - 30,000	\$137,940	\$100,320	\$287,100	\$100,320	\$100,320
30,001 - 40,000	\$175,560	\$117,054	\$365,400	\$117,054	\$117,054
40,001 - 50,000	\$225,720	\$130,432	\$469,800	\$130,432	\$130,432
50,001 - 100,000	\$376,200	\$217,386	\$783,000	\$217,386	\$217,386
Access Fee: \$0.01 for a	Il Data Categories.	***			

DATA CATEGORY: FUNDAMENTALS, SECURITY OWNERSHIP, SUPPLY CHAIN, ENVIRONMENTAL SOCIAL & GOVERNANCE

Number of Unique Securities****		·	Data Category			
Band	Fundamentals	Fundamentals – Industry Specific ***	Fundamentals – Segmentation ***	Security Ownership *	Supply Chain	Environmental Social & Governance
1 – 25	\$209	\$353	\$265	\$471	\$1,029	\$441
26 - 50	\$376	\$706	\$529	\$941	\$2,059	\$882
51 - 100	\$752	\$1,235	\$926	\$1,647	\$3,603	\$1,544
101 - 250	\$1,881	\$2,471	\$1,853	\$3,294	\$7,206	\$3,088
251 - 500	\$3,762	\$4,941	\$3,706	\$6,588	\$14,412	\$6,176
501 - 1000	\$7,524	\$9,882	\$7,412	\$13,176	\$28,824	\$12,353
1,001 - 2,500	\$15,675	\$24,706	\$18,529	\$32,941	\$72,059	\$30,882
2,501 - 5,000	\$31,350	\$49,412	\$37,059	\$65,882	\$144,118	\$61,765
5,001 - 7,500	\$47,025	\$74,118	\$55,588	\$98,824	\$216,176	\$92,647
7,501 – 10,000	\$62,700	\$98,824	\$74,118	\$131,765	\$288,235	\$123,529
10,001 - 15,000	\$78,375	\$148,235	\$111,176	\$197,647	\$432,353	\$185,294
15,001 - 20,000	\$83,600	\$197,647	\$148,235	\$263,529	\$576,471	\$247,059
20,001 - 25,000	\$88,825	\$247,059	\$185,294	\$329,412	\$720,588	\$308,824
25,001 - 30,000	\$94,050	\$296,471	\$222,353	\$395,294	\$864,706	\$370,588
30,001 - 40,000	\$99,275	\$395,294	\$296,471	\$527,059	\$1,152,941	\$494,118
40,001 - 50,000	\$104,500	\$494,118	\$370,588	\$658,824	\$1,441,176	\$617,647
50,001 - 100,000	\$150,480	\$635,294	\$476,471	\$847,059	\$1,852,941	\$794,118
Access Fee: \$0.01 for all Da	ata Categories.****					

^{*} The amounts shown in the tables above for Corporate Actions, Derived Fields and Security Ownership reflect only the incremental differences above the price to be paid for the underlying Security Master Fields.

^{**} The amounts shown in the table above for Credit Risk – Capital Structure and Credit Risk – Regulatory Compliance fields reflect only the incremental differences above the price to be paid for the underlying Credit Risk – Corporate Structure fields.

^{***} The amounts shown in the table above reflect only the incremental difference above the price to be paid for the underlying Fundamentals fields.

^{****} The number of unique securities and applicable fees (including the Access Fee) shall be calculated separately for each Data Category and each of the following Asset Types: ABS/CMO/CMBS/Whole Loan, Equity, Fixed Income, Listed Derivatives, Mortgage Pools, Municipals, Curve Tenors, and Entity.

REGULATORY AND RISK DATA CATEGORIES

Number of Securiti				Group		
Ban	ıd	1	2	3	4	5
1 - 150		\$1,000	\$2,500	\$4,200	\$10,000	\$13,333
151 - 500		\$3,000	\$7,500	\$12,600	\$30,000	\$40,000
501 - 1,000		\$5,880	\$14,321	\$21,004	\$47,520	\$70,400
1,001 - 1,500		\$9,342	\$22,837	\$33,494	\$66,150	\$98,000
1,501 - 2,500		\$14,618	\$33,222	\$48,726	\$96,120	\$135,351
2,501 - 5,000		\$26,520	\$58,406	\$85,662	\$104,325	\$154,556
5,001 - 7,500		\$37,920	\$64,899	\$95,185	\$112,050	\$166,000
7,501 - 10,000		\$47,760	\$81,774	\$119,935	\$126,000	\$183,066
10,001 - 15,000		\$67,040	\$98,650	\$145,750	\$153,900	\$230,760
15,001 - 20,000		\$82,640	\$109,035	\$154,000	\$174,457	\$247,685
20,001 - 25,000		\$94,080	\$121,497	\$164,489	\$186,919	\$276,917
25,001 - 30,000		\$100,960	\$125,652	\$167,535	\$228,457	\$338,455
30,001 - 40,000		\$117,520	\$130,844	\$170,582	\$290,765	\$430,763
40,001 - 50,000		\$124,040	\$149,537	\$191,906	\$373,842	\$553,840
50,001 - 75,000		\$162,000	\$207,691	\$266,536	\$519,227	\$769,225
75,001 - 100,000		\$180,000	\$290,768	\$373,152	\$726,919	\$1,076,917
Access Fee: \$0.0	3 for each Data	Category in Gr	oups 1-5.***			
Group 1			ckaged *, Investo ancing Transactior			liFIR Transparency
Group 2	CBE **, SSFA **, US Withholding Tax **					
Group 3	HQLA **, IFRS	QLA **, IFRS 9 SPPI **, Collateral Tagging **, Benchmark Regulation **, Default Risk**				
Group 4	ECL *****, LQA	** ***				
Group 5	FRTB RFET **,	Investor Analy	tics **			

^{*} Regulatory Data Base and Packaged fields for a unique security are not charged when received together with any other billable Regulatory Data Category fields for the security.

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^{**} The amounts shown in the tables above for CBE, LQA, HQLA, IFRS 9 SPPI, Collateral Tagging, SSFA, US Withholding Tax, Investor Protection, Basic Tax, MiFIR Transparency, UK MiFIR, Securities Financing Transactions Regulation, Benchmark Regulation, Default Risk, Investor Analytics, and FRTB RFET fields reflect only the incremental differences above the price to be paid for the underlying Security Master fields.

^{***} The Access Fee for LQA Data Category requests shall be waived in respect of up to five (5) such requests per security per day in the LQA Data Category.

^{****} The number of unique securities and applicable fees (including the Access Fee) shall be calculated separately for each Data Category in Groups1-5 and each of the following Asset Types: ABS/CMO/CMBS/Whole Loan, Equity, Fixed Income, Listed Derivatives, Mortgage Pools, Municipals, and Curve Tenors.

^{*****} The amounts shown in the tables above for ECL fields reflect only the incremental differences above the price to be paid for the underlying Default Risk fields.

Ad Hoc Fee Tables

Monthly Unique Security Charges Reference Data

Asset Type	Security Master and Packaged	Intraday Derived *	End of Day Derived *	Intraday Pricing	End of Day Pricing
Corporate, Preferred, Money Market	\$1.78	\$0.81	\$0.71	\$0.81	\$0.71
US Government	\$1.05	\$0.81	\$0.71	\$0.81	\$0.71
Sovereign/ Supranational/ Agency	\$1.78	\$0.81	\$0.71	\$0.81	\$0.71
Syndicated Loans	\$2.09	\$0.81	\$0.71	\$0.81	\$0.71
US Municipals	\$1.41	\$0.81	\$0.71	\$0.76	\$0.66
ABS, CMO, CMBS, Whole Loan	\$2.35	\$2.57	\$2.46	\$1.20	\$1.10
Agency Pools and TBAs	\$0.52	\$0.76	\$0.66	\$0.27	\$0.17
Equity and Equity Indices	\$1.36	\$0.62	\$0.52	\$0.31	\$0.21
Options/Futures/ FX/Warrants	\$1.36	\$0.62	\$0.52	\$0.31	\$0.21
Funds	\$1.57	\$0.62	\$0.52	\$0.31	\$0.21
Economic Statistics	\$0.21	\$0.31	\$0.21	\$0.31	\$0.21
Curve Tenor	\$0.21	\$2.40	\$2.40	\$2.61	\$2.61

Asset Type	Corporate Actions *	Corporate Structure	Capital Structure **	Regulatory & Compliance **	Fundamentals	Estimates
All	\$0.52	\$2.61	\$0.52	\$0.52	\$1.57	\$2.61

Asset	Fundamentals –	Fundamentals –	Security	Supply	Environmental Social
Type	Industry Specific ***	Segmentation ***	Ownership*	Chain	& Governance
All	\$1.20	\$0.90	\$1.60	\$3.50	\$1.50

Regulatory and Risk Data

Asset Type	Regulatory Data Base and Packaged * ****	Investor Protection *	Basic Tax *	MiFIR Transparency *	UK MiFIR *	Securities Financing Transactions Regulation*	CBE*	US Withholding Tax *	SSFA*
All	\$0.75	\$0.75	\$0.75	\$0.75	\$0.75	\$0.75	\$4.00	\$4.00	\$4.00

Asset Type	Benchmark Regulation*	Default Risk*	HQLA*	IFRS 9 SPPI *	Collateral Tagging *	ECL****	LQA*	FRTB RFET *	Investor Analytics*
All	\$5.50	\$5.50	\$5.50	\$5.50	\$5.50	\$8.50	\$8.50	\$10.00	\$10.00

Historical Data

Data Type	Monthly Unique Security Charge	Monthly Maintenance Security Charge	Access Fee	
Historical Time Series Fields or End of Day Historical Requests	\$26.13 per curve tenor \$3.14 for fixed income or equities	\$4.18 per curve tenor \$0.52 for fixed income or equities	\$0.03 for fixed income and each curve tenor \$0.01 for equities	
Intraday Trades and Quotes	\$26.13 per curve tenor \$5.23 for fixed income or equities	\$4.18 per curve tenor \$0.52 for fixed income or equities	\$0.03 for fixed income and each curve tenor \$0.01 for equities	

Packaged fields for a unique security are not charged when received together with any other billable fields for the security.

- *The Monthly Unique Security Charges shown in the table above for Corporate Actions, Intraday Derived, End of Day Derived, Regulatory Data Base and Packaged, Investor Protection, Basic Tax, MiFIR Transparency, UK MiFIR, Securities Financing Transactions Regulation, Benchmark Regulation, CBE, US Withholding Tax, SSFA, HQLA, IFRS 9 SPPI, Collateral Tagging, LQA, Default Risk, Investor Analytics, Security Ownership, and FRTB RFET fields reflect only the incremental differences above the price to be paid for the underlying Security Master fields.
- **The Monthly Unique Security Charges shown in the table above for Capital Structure and Regulatory & Compliance fields reflect only the incremental differences above the price to be paid for the underlying Corporate Structure fields.
- *** The Monthly Unique Security Charges shown in the tables above for Fundamentals Industry Specific and Fundamentals Segmentation reflect only the incremental differences above the price paid for the underlying Fundamentals fields.
- **** Regulatory Data Base and Packaged fields for a unique security are not charged when received together with any other billable Regulatory Data Category fields for the security.
- ***** The Monthly Unique Security Charge shown in the tables above for ECL fields reflect only the incremental differences above the price to be paid for the underlying Default Risk fields.

The Access Fee is \$0.01 for all Data Categories and Asset Types, except the Access Fee is \$0.03 for the following:

- Intraday Pricing and Snapshot (Corporate, Preferred, Money Market; US Government; Sovereign/Supranational/Agency; Syndicated Loans; US Municipals; ABS, CMO, CMBS, Whole Loan; and Agency Pools and TBAs);
- Intraday Derived (Corporate, Preferred, Money Market; US Government; Sovereign/Supranational/Agency; Syndicated Loans; US Municipals; ABS, CMO, CMBS, Whole Loan; Agency Pools and TBAs; Equity and Equity Indices; Options/Futures/FX/Warrants and Funds); and
- Regulatory Data Base and Packaged, Investor Protection, Basic Tax, MiFIR Transparency, Benchmark Regulation, CBE, US Withholding Tax, SSFA, HQLA, IFRS 9 SPPI, Collateral Tagging, LQA, UK MiFIR, Securities Financing Transactions Regulation, Default Risk, ECL, Investor Analytics, and FRTB RFET.

Curve Tenor history is available for prior twelve (12) months only; additional history is available subject to additional fees. Please contact Licensor for a fee quote.

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