## EXHIBIT 5

Additions <u>underscored</u> Deletions [bracketed]

## New York Stock Exchange LLC NYSE American LLC NYSE Arca, Inc. NYSE Chicago, Inc. NYSE National, Inc.

# Mahwah Wireless, Circuits, and Non-Colocation Connectivity Fees and Charges

Last Updated: [December 14, 2020] •, 2021

\* \* \* \* \*

### C. Mahwah Circuits

Type of Service	Amount of Charge
Optic Access Circuit - 1 Gb	\$1,500 initial charge plus
	\$1,500 monthly charge
Optic Access Circuit - 10 Gb	\$5,000 initial charge plus
	\$2,500 monthly charge
Optic Access Circuit - 40 Gb	\$5,000 initial charge plus
	\$6,000 monthly charge
Optic Low Latency Circuit - 1 Gb	\$1,500 initial charge plus
	\$2,750 monthly charge
Optic Low Latency Circuit - 10 Gb	\$5,000 initial charge plus
	\$3,950 monthly charge
Optic Low Latency Circuit - 40 Gb	\$5,000 initial charge plus
	\$8,250 monthly charge

# D. Non-Colocation ("NCL") Services

IDS Network Ports (see Note 1)		
Type of Service	Description	Amount of Charge
<u>NCL IDS Network Access -</u>	<u>10 Gb IDS Network</u>	\$10,000 initial charge plus
<u>10 Gb</u>	port	\$15,250 monthly charge
NCL IDS Network Access -	40 Gb IDS Network	\$10,000 initial charge plus
40 Gb	port	\$19,750 monthly charge

Connectivity to Third Party Systems over IDS Network (see Note 2)		
Description	Amount of Charge	
<u>1Mb</u>	\$200 per connection monthly charge	
<u>3Mb</u>	\$400 per connection monthly charge	
<u>5Mb</u>	\$500 per connection monthly charge	
<u>10Mb</u>	\$800 per connection monthly charge	
<u>25Mb</u>	\$1,200 per connection monthly charge	
<u>50Mb</u>	\$1,800 per connection monthly charge	
<u>100Mb</u>	\$2,500 per connection monthly charge	
<u>200Mb</u>	\$3,000 per connection monthly charge	
<u>1Gb</u>	\$3,500 per connection monthly charge	
<b>Connectivity to Third Party Data Feeds over</b>	the IDS Network (see Note 3)	
Description	Monthly Charge	
BM&F Bovespa	<u>\$3,000</u>	
Boston Options Exchange (BOX)	<u>\$1,000</u>	
Canadian Securities Exchange (CSE)	<u>\$1,000</u>	
Cboe BZX Exchange (CboeBZX) and Cboe	\$2,000	
BYX Exchange (CboeBYX)	40.000	
<u>Cboe EDGX Exchange (CboeEDGX) and</u> <u>Cboe EDGA Exchange (CboeEDGA)</u>	<u>\$2,000</u>	
<u>Cboe Exchange (Cboe) and Cboe C2</u>	\$2,000	
Exchange (C2)		
<u>CME Group</u>	\$3,000	
Euronext Optiq Compressed Cash	<u>\$900</u>	
Euronext Optiq Compressed Derivatives	<u>\$600</u>	
Euronext Optiq Shaped Cash	<u>\$1,200</u>	
Euronext Optiq Shaped Derivatives	<u>\$900</u>	
Financial Industry Regulatory Authority	<u>\$500</u>	
(FINRA)		
<u>Global OTC</u>	<u>\$100</u>	
$\frac{\text{ICE Data Services Consolidated Feed} \le 100}{\text{Mb}}$	<u>\$200</u>	
$\frac{ICE \text{ Data Services Consolidated Feed} > 100}{Mb \text{ to } \le 1 \text{ Gb}}$	<u>\$500</u>	
ICE Data Services Consolidated Feed > 1 Gb	<u>\$1,000</u>	

Farm ≤ 100Mb   S500     ICE Data Services Consolidated Feed Shared   S500     Farm > 100 Mb to ≤ 1 Gb   S1000     ICE Data Services Consolidated Feed Shared   S1000     Farm > 1 Gb   S200     ICE Data Services PRD   S200     ICE Data Services PRD CEP   S400     Intercontinental Exchange (ICE)   S1.500     Intercontinental Exchange (ICE)   S1.000     Max Emerald   S3.500     MIAX Emerald   S3.500     MIAX PEARL Equities   S2.000     MAX PEARL Equities   S2.000     MAX PEARL Equities   S2.000     MASDAQ Stock Market   S2.000     NASDAQ Conck Market   S2.000     NASDAQ UQDF & UTDF   S500     NASDAQ Canada (CXC, CXD, CX2)   S1.000     NASDAQ Canada (CXC, CXD, CX2)   S1.000     NASDAQ Stock Market   S2.000     NASDAQ Stock Market Scoup   S1.000     NASDAQ Canada (CXC, CXD, CX2)   S1.000     NASDAQ Stock Market Scoup   S1.000     NASDAQ Stock Market Scoup   S1.000     NASDAQ Stock Market Scoup   S1.000     NASDAQ Canada (CXC, CXD,	ICE Data Services Consolidated	d Feed Shared	<u>\$200</u>	
Farm > 100 Mb to <1 GbSilonoICE Data Services Consolidated Feed Shared Farm > 1 Gb\$1,000ICE Data Services PRD\$200ICE Data Services PRD\$200ICE Data Services PRD CEP\$400Intercontinental Exchange (ICE)\$1,500Investors Exchange (IEX)\$1,000ITG TriAct Matchnow\$1,000MIAX Emerald\$3,500MIAX PEARL Equities\$2,500MIAX PEARL Equities\$2,500MIAX PEARL Equities\$2,500MSCI 25 Mb\$1,200NASDAQ OMX Global Index Data Service\$100NASDAQ OMX Global Index Data Service\$100NASDAQ UDF & UTDF\$550NASDAQ UDF & UTDF\$500NASDAQ Canada (CXC, CXD, CX2)\$1,500NASDAQ ISE\$1,000Omega\$1,000OneChicago\$1,000Ortel Arets Group\$1,000Ortel Arets Group\$1,000OneChicago\$1,000OneChicago\$1,000OneChicago\$1,000OneChicago\$1,000OneChicago\$1,000OneChicago\$1,000TMX Group\$2,500Vela - SuperFeed >1.25 Gb\$1,000TMX Group\$2,500S100 monthly recurring charge per feedConnectivity to DTICC\$250 monthly recurring chargeS0 Mb connection to DTCC\$2,500 monthly recurring chargeS0 Mb connection to DTCC\$2,500 monthly recurring chargeS0 Mb connection to DTCC\$2,500 monthly recurring charge	$\frac{\text{Farm} \le 100 \text{Mb}}{\text{Garm} = 0}$		<b>#5</b> 00	
ICE Data Services Consolidated Feed Shared Fam>1 Gb   \$1.000     ICE Data Services - ICE TMC   \$200     ICE Data Services PRD   \$200     ICE Data Services PRD   \$200     ICE Data Services PRD CEP   \$4400     Intercontinental Exchange (ICE)   \$1,500     Investors Exchange (IEX)   \$1,000     ITG TriAct Matchnow   \$1,000     Members Exchange (MEMX)   \$3,500     MIAX Emerald   \$35,500     MIAX PEARL Equities   \$2,500     Montréal Exchange (MX)   \$1,000     MSCL 5 Mb   \$1,200     NASDAQ Stock Market   \$2,000     NASDAQ OMX Global Index Data Service   \$100     NASDAQ Canada (CXC, CXD, CX2)   \$1,500     NASDAQ Canada (CXC, CXD, CX2)   \$1,500     NASDAQ Step   \$1,000     Neo Acquitas   \$1,000     Ornega   \$1,000     Ornega   \$1,000     Ornega   \$1,000     Ornega   \$1,000     Orea SuperFeed <500 Mb to <1.25 Gb		d Feed Shared	<u>\$500</u>	
Farm > 1 Gb ICE Data Services - ICE TMC \$200   ICE Data Services PRD \$200   ICE Data Services PRD CEP \$400   Intercontinental Exchange (ICE) \$1.500   Investors Exchange (IEX) \$1.000   Members Exchange (IEX) \$1.000   Max Emerald \$3.500   MIAX Emerald \$3.500   MIAX PEARL Equities \$2.500   Montréal Exchange (MX) \$1.000   MSCI 25 Mb \$1.200   NASDAQ Stock Market \$2.000   NASDAQ Stock Market \$2.000   NASDAQ UQDF & UTDF \$500   NASDAQ Canada (CXC, CXD, CX2) \$1.500   NASDAQ ISE \$1.000   NASDAQ ISE \$1.000   NASDAQ ISE \$1.000   NASDAQ ISE \$1.000   Nasdago \$1.000   Nasdago \$1.000   Nasdago \$1.000   Nasdago \$1.000   Omega \$1.000   Onechicago \$1.000   OTC Markets Group \$1.000   Vela – SuperFeed >10.2 Gb \$800   Vela – SuperFeed >20.0 Mb to <1.25 Gb			¢1.000	
ICE Data Services - ICE TMC   \$200     ICE Data Services PRD   \$200     ICE Data Services PRD CEP   \$400     Intercontinental Exchange (ICE)   \$1,500     Investors Exchange (IEX)   \$1,000     TIG TriAct Matchnow   \$1000     Members Exchange (MEMX)   \$3,000     MIAX Emerald   \$3,500     MIAX PEARL Equities   \$2,500     Montréal Exchange (MX)   \$1,000     MSCI 5 Mb   \$500     MSCI 5 Mb   \$1,200     NASDAQ OMX Global Index Data Service   \$100     NASDAQ UQDF & UTDF   \$500     NASDAQ OMX Global Index Data Service   \$1,000     NASDAQ UQDF & UTDF   \$500     NASDAQ OMX Global Network ORC, CXD, CX2)   \$1,500     NASDAQ OBF & UTDF   \$500     NASDAQ OBE   \$1,000     Neo Acquitas   \$1,200     Omega   \$1,000     Vela – SuperFeed >500 Mb to <1.25 Gb		a Feed Shared	<u>\$1,000</u>	
ICE Data Services PRD   \$200     ICE Data Services PRD CEP   \$400     Intercontinental Exchange (ICE)   \$1,500     Investors Exchange (IEX)   \$1,000     ITG TriAct Matchnow   \$1,000     Members Exchange (MEMX)   \$3,000     MAX Emerald   \$3,500     MIAX Emerald   \$3,500     MIAX PEARL Equities   \$2,200     Montréal Exchange (MX)   \$1,000     MSCI 5 Mb   \$1,200     MSCI 25 Mb   \$1,200     NASDAQ Stock Market   \$2,000     NASDAQ Cont Market   \$2,000     NASDAQ Cont Global Index Data Service   \$100     NASDAQ Canada (CXC, CXD, CX2)   \$1,500     NASDAQ Canada (CXC, CXD, CX2)   \$1,000     NASDAQ ISE   \$1,000     Neo Aequitas   \$1,200     Omega   \$1,000     Ont Chicago   \$1,000     OTC Markets Group   \$1,000     Vela – SuperFeed >500 Mb to <1.25 Gb			\$200	
ICE Data Services PRD CEP \$400   Intercontinental Exchange (ICE) \$1,500   Investors Exchange (IEX) \$1,000   ITG TriAct Matchnow \$1,000   Members Exchange (MEMX) \$3,000   MIAX Options/MIAX PEARL Options \$2,000   MIAX PEARL Equities \$2,500   Montréal Exchange (MEMX) \$1,000   MSCI 25 Mb \$1,200   MSCI 25 Mb \$1,200   NASDAQ Stock Market \$2,000   NASDAQ VIODE & UTDE \$500   NASDAQ VIODE & UTDE \$500   NASDAQ Canada (CXC, CXD, CX2) \$1,500   NASDAQ ISE \$1,000   NASDAQ ISE \$1,000   NASDAQ ISE \$1,000   NASDAQ ONS \$1,000   Omega \$1,000   OneChicago \$1,000   OTC Markets Group \$1,000   Vela – SuperFeed <500 Mb				
Intercontinental Exchange (ICE)   \$1,500     Investors Exchange (IEX)   \$1,000     ITG TriAct Matchnow   \$1,000     Members Exchange (MEMX)   \$3,000     MIAX Emerald   \$3,500     MIAX PEARL Equities   \$2,000     MIAX PEARL Equities   \$2,000     MIAX PEARL Equities   \$2,000     Montréal Exchange (MX)   \$1,000     MSCI 5 Mb   \$1,200     MSCI 5 Mb   \$1,200     NASDAQ Stock Market   \$2,000     NASDAQ OMX Global Index Data Service   \$100     NASDAQ OUDF & UTDF   \$500     NASDAQ Canada (CXC, CXD, CX2)   \$1,500     NASDAQ Canada (CXC, CXD, CX2)   \$1,000     Neo Acquitas   \$1,200     Omega   \$1,000     Omechicago   \$1,000     Vela – SuperFeed >500 Mb to <1.25 Gb				
Investors Exchange (IEX)   \$1,000     ITG TriAct Matchnow   \$1,000     Members Exchange (MEMX)   \$3,000     MIAX Emerald   \$3,500     MIAX Options/MIAX PEARL Options   \$2,000     MIAX PEARL Equities   \$2,500     Montréal Exchange (MX)   \$1,000     MSCI 5 Mb   \$1,000     MSCI 25 Mb   \$1,200     NASDAQ Stock Market   \$2,000     NASDAQ OMX Global Index Data Service   \$100     NASDAQ OUQDF & UTDF   \$500     NASDAQ UQDF & UTDF   \$500     NASDAQ ISE   \$1,000     NASDAQ ISE   \$1,000     NASDAQ ISE   \$1,000     Neo Aequitas   \$1,000     Omega   \$1,000     Order Strong   \$1,000     Vela – SuperFeed <500 Mb to <1.25 Gb		·)		
ITG TriAct Matchnow   \$1.000     Members Exchange (MEMX)   \$3,000     MIAX Detons/MIAX PEARL Options   \$2,000     MIAX PEARL Equities   \$2,500     Montréal Exchange (MX)   \$1,000     MSCI 5 Mb   \$500     MSCI 25 Mb   \$1,200     NASDAQ Stock Market   \$2,000     NASDAQ OMX Global Index Data Service   \$100     NASDAQ OMX Global Index Data Service   \$100     NASDAQ Canada (CXC, CXD, CX2)   \$1,500     NASDAQ ISE   \$1,000     Neo Aequitas   \$1,200     Omega   \$1,000     Omega   \$1,000     Order Strong   \$1,000     Vela – SuperFeed <500 Mb to <1.25 Gb		<u>,)</u>		
Members Exchange (MEMX)\$3,000MIAX Emerald\$3,500MIAX Options/MIAX PEARL Options\$2,000MIAX PEARL Equities\$2,500Montréal Exchange (MX)\$1,000MSCI 5 Mb\$1,200MSCI 25 Mb\$1,200NASDAQ Stock Market\$2,000NASDAQ OMX Global Index Data Service\$100NASDAQ Canada (CXC, CXD, CX2)\$1,500NASDAQ Canada (CXC, CXD, CX2)\$1,500NASDAQ ISE\$1,000Neo Aequitas\$1,200Omega\$1,000Omega\$1,000Ort Markets Group\$1,000Vela - SuperFeed <500 Mb				
MIAX Emerald   \$3,500     MIAX Options/MIAX PEARL Options   \$2,000     MIAX PEARL Equities   \$2,500     Montréal Exchange (MX)   \$1,000     MSCI 5 Mb   \$500     MSCI 25 Mb   \$1,200     NASDAQ Stock Market   \$2,000     NASDAQ Stock Market   \$2,000     NASDAQ Stock Market   \$2,000     NASDAQ OMX Global Index Data Service   \$100     NASDAQ Canada (CXC, CXD, CX2)   \$1,500     NASDAQ ISE   \$1,000     Neo Aequitas   \$1,200     Omega   \$1,000     OneChicago   \$1,000     OTC Markets Group   \$1,000     Vela – SuperFeed <500 Mb				
MIAX Options/MIAX PEARL Options   \$2,000     MIAX PEARL Equities   \$2,500     Montréal Exchange (MX)   \$1,000     MSC1 5 Mb   \$500     MSC1 5 Mb   \$1,000     MSC1 25 Mb   \$1,200     NASDAQ Stock Market   \$2,000     NASDAQ OMX Global Index Data Service   \$100     NASDAQ UQDF & UTDF   \$500     NASDAQ Canada (CXC, CXD, CX2)   \$1,500     NASDAQ ISE   \$1,000     Neo Aequitas   \$1,200     Omega   \$1,000     Orc Markets Group   \$1,000     Vela - SuperFeed <500 Mb				
MIAX PEARL Equities   \$2,500     Montréal Exchange (MX)   \$1,000     MSCI 5 Mb   \$500     MSCI 25 Mb   \$1,200     NASDAQ Stock Market   \$2,000     NASDAQ OMX Global Index Data Service   \$100     NASDAQ OMX Global Index Data Service   \$100     NASDAQ UQDF & UTDF   \$500     NASDAQ Canada (CXC, CXD, CX2)   \$1,500     NASDAQ ISE   \$1,000     Neo Acquitas   \$1,200     Omega   \$1,000     Orc Markets Group   \$1,000     Vela – SuperFeed <500 Mb		Ontions		
Montréal Exchange (MX)   \$1,000     MSCI 5 Mb   \$500     MSCI 25 Mb   \$1,200     NASDAQ Stock Market   \$2,000     NASDAQ OUX Global Index Data Service   \$100     NASDAQ UQDF & UTDF   \$500     NASDAQ Canada (CXC, CXD, CX2)   \$1,500     NASDAQ Canada (CXC, CXD, CX2)   \$1,500     NASDAQ ISE   \$1,000     Neo Aequitas   \$1,200     Omega   \$1,000     OneChicago   \$1,000     OTC Markets Group   \$1,000     Vela – SuperFeed <500 Mb		opuolis		
MSCI 5 Mb\$500MSCI 25 Mb\$1,200NASDAQ Stock Market\$2,000NASDAQ OMX Global Index Data Service\$100NASDAQ OMX Global Index Data Service\$100NASDAQ UQDF & UTDF\$500NASDAQ Canada (CXC, CXD, CX2)\$1,500NASDAQ ISE\$1,000Neo Aequitas\$1,200Omega\$1,000Omechicago\$1,000OTC Markets Group\$1,000Vela - SuperFeed <500 Mb				
MSCI 25 Mb   \$1,200     NASDAQ Stock Market   \$2,000     NASDAQ OMX Global Index Data Service   \$100     NASDAQ UQDF & UTDF   \$500     NASDAQ Canada (CXC, CXD, CX2)   \$1,500     NASDAQ ISE   \$1,000     Neo Aequitas   \$1,200     Omega   \$1,000     OneChicago   \$1,000     OTC Markets Group   \$1,000     Vela – SuperFeed <500 Mb				
NASDAQ Stock Market   \$2,000     NASDAQ OMX Global Index Data Service   \$100     NASDAQ UQDF & UTDF   \$500     NASDAQ Canada (CXC, CXD, CX2)   \$1,500     NASDAQ ISE   \$1,000     Neo Aequitas   \$1,200     Omega   \$1,000     OneChicago   \$1,000     Ort Markets Group   \$1,000     Vela – SuperFeed <500 Mb				
NASDAQ OMX Global Index Data Service   \$100     NASDAQ UQDF & UTDF   \$500     NASDAQ Canada (CXC, CXD, CX2)   \$1,500     NASDAQ ISE   \$1,000     Neo Aequitas   \$1,200     Omega   \$1,000     OneChicago   \$1,000     Ort Markets Group   \$1,000     Vela – SuperFeed <500 Mb				
NASDAQ UQDF & UTDF\$500NASDAQ Canada (CXC, CXD, CX2)\$1,500NASDAQ ISE\$1,000Neo Aequitas\$1,200Omega\$1,000OneChicago\$1,000OTC Markets Group\$1,000Vela - SuperFeed <500 Mb		Data Campiaa	-	
NASDAQ Canada (CXC, CXD, CX2)   \$1,500     NASDAQ ISE   \$1,000     Neo Aequitas   \$1,200     Omega   \$1,000     OneChicago   \$1,000     OTC Markets Group   \$1,000     Vela – SuperFeed <500 Mb		Data Service		
NASDAQ ISE   \$1,000     Neo Aequitas   \$1,200     Omega   \$1,000     OneChicago   \$1,000     OTC Markets Group   \$1,000     Vela – SuperFeed <500 Mb		$(\mathbf{CV2})$		
Neo Aequitas   \$1,200     Omega   \$1,000     OneChicago   \$1,000     OTC Markets Group   \$1,000     Vela – SuperFeed <500 Mb		, CA2)		
Omega\$1,000OneChicago\$1,000OTC Markets Group\$1,000Vela - SuperFeed <500 Mb				
OneChicago   \$1,000     OTC Markets Group   \$1,000     Vela – SuperFeed <500 Mb				
OTC Markets Group\$1,000Vela - SuperFeed <500 Mb				
Vela – SuperFeed <500 Mb				
Vela - SuperFeed >500 Mb to <1.25 Gb				
Vela – SuperFeed >1.25 Gb   \$1,000     TMX Group   \$2,500     Connectivity to Third Party Testing and Certification Feeds     \$100 monthly recurring charge per feed   \$100 monthly recurring charge per feed     Connectivity to DTCC     Description   Amount of Charge     5 Mb connection to DTCC   \$500 monthly recurring charge     50 Mb connection to DTCC   \$2,500 monthly recurring charge     NCL NMS Network Ports (see Note 4)   Image: Note 4 to 1 to	i	~1.25 Gb		
TMX Group   \$2,500     Connectivity to Third Party Testing and Certification Feeds     \$100 monthly recurring charge per feed   \$100 monthly recurring charge per feed     Connectivity to DTCC     Description   Amount of Charge     5 Mb connection to DTCC   \$500 monthly recurring charge     50 Mb connection to DTCC   \$2,500 monthly recurring charge     NCL NMS Network Ports (see Note 4)   \$2,500 monthly recurring charge		(1.25 00		
Connectivity to Third Party Testing and Certification Feeds     §100 monthly recurring charge per feed     Connectivity to DTCC     Description   Amount of Charge     5 Mb connection to DTCC   \$500 monthly recurring charge     50 Mb connection to DTCC   \$2,500 monthly recurring charge     NCL NMS Network Ports (see Note 4)   Image: Note the set of th				
§100 monthly recurring charge per feed     Connectivity to DTCC     Description   Amount of Charge     5 Mb connection to DTCC   \$500 monthly recurring charge     50 Mb connection to DTCC   \$2,500 monthly recurring charge     NCL NMS Network Ports (see Note 4)   Image: Note the set of the set o				
Connectivity to DTCC     Description   Amount of Charge     5 Mb connection to DTCC   \$500 monthly recurring charge     50 Mb connection to DTCC   \$2,500 monthly recurring charge     NCL NMS Network Ports (see Note 4)   Image: Content of the second secon	<b><u>Connectivity to Third Party T</u></b>	Cesting and Cert	ification Fe	<u>eds</u>
Description   Amount of Charge     5 Mb connection to DTCC   \$500 monthly recurring charge     50 Mb connection to DTCC   \$2,500 monthly recurring charge     NCL NMS Network Ports (see Note 4)	<u>\$100 m</u>	onthly recurring	charge per fe	eed
5 Mb connection to DTCC   \$500 monthly recurring charge     50 Mb connection to DTCC   \$2,500 monthly recurring charge     NCL NMS Network Ports (see Note 4)	<b>Connectivity to DTCC</b>			
50 Mb connection to DTCC   \$2,500 monthly recurring charge     NCL NMS Network Ports (see Note 4)	Description		Amount of	Charge_
NCL NMS Network Ports (see Note 4)	5 Mb connection to DTCC		<u>\$500 montl</u>	nly recurring charge
	50 Mb connection to DTCC		<u>\$2,500 mon</u>	nthly recurring charge
Type of Service     Description     Amount of Charge	NCL NMS Network Ports (see	e Note 4)		
	Type of Service	Description		Amount of Charge

NCL NMS Network Access - 10 Gb	<u>10 Gb NCL NMS</u> <u>Network port</u>	\$10,000 initial charge plus \$11,000 monthly charge
NCL NMS Network Access - 40 Gb	40 Gb NCL NMS Network port	<u>\$10,000 initial charge</u> plus \$18,000 monthly charge
Other Services		
Type of Service	Description	Amount of Charge
NCL Cross Connect	Furnish and install one cross-connect	\$500 initial charge plus \$600 monthly charge
NCL Expedite Fee	Expedited installation/ completion of a customer's NCL service	<u>\$4,000 per request</u>
NCL Change Fee	Change to an NCL service that has already been installed/ completed for a customer	<u>\$950 per request</u>

# NCL Notes

# Note 1: IDS Network

When an NCL Customer purchases access to the IDS Network, it receives the ability to access the trading and execution systems of the NYSE, NYSE American, NYSE Arca, NYSE Chicago, and NYSE National (together, the Exchange Systems) as well as of Global OTC (the Global OTC System), subject, in each case, to authorization by the NYSE, NYSE American, NYSE Arca, NYSE Chicago, NYSE National, or Global OTC, as applicable. Each Exchange listed above offers access to its Exchange Systems to its members and Global OTC offers access to the Global OTC System to its subscribers, such that an NCL Customer does not have to purchase a service that includes access to the IDS Network to obtain access to Exchange Systems or the Global OTC System.

When an NCL Customer purchases access to the IDS Network, it receives connectivity to any of the Included Data Products that it selects, subject to any necessary technical provisioning requirements, authorization, and licensing by the provider of the Included Data Feed. Fees for the Included Data Products are charged by the provider of such Included Data Products. An NCL Customer can change the Included Data Products to which it receives connectivity at any time, subject to authorization from the provider of such Included Data Product. Because access to the IDS Network is not the exclusive method to connect to the Included Data Products, an NCL Customer does not have to purchase a service that includes access to the IDS Network to connect to such Included Data Products.

The Included Data Products are as follows:

NMS feeds
<u>CTS</u>
CQS
<u>OPRA</u>
NYSE
NYSE American
NYSE American Options
NYSE Arca
NYSE Arca Options
NYSE Best Quote and Trades (BQT)
NYSE Bonds
NYSE Chicago
NYSE National

### Note 2: Third Party Systems

When an NCL Customer purchases a connection that includes access to Third Party Systems, it receives access to Third Party Systems it selects, subject to any technical provisioning requirements, authorization, and licensing from such Third Party System. Fees for the Third Party Systems are charged by the provider of such Third Party System. The Exchange is not the exclusive method to connect to Third Party Systems. The Third Party Systems are as follows:

Third Party Systems
Americas Trading Group (ATG)
BM&F Bovespa
Boston Options Exchange (BOX)
Canadian Securities Exchange (CSE)
Cboe BYX Exchange (CboeBYX), Cboe BZX Exchange
(CboeBZX), Cboe EDGA Exchange (CboeEDGA), and
Cboe EDGX Exchange (CboeEDGX)
Cboe Exchange (Cboe) and Cboe C2 Exchange (C2)
Chicago Mercantile Exchange (CME Group)
Credit Suisse
Euronext Optiq Cash and Derivatives Unicast (EUA)
Euronext Optiq Cash and Derivatives Unicast
(Production)
Investors Exchange (IEX)
ITG TriAct Matchnow
Long Term Stock Exchange (LTSE)

Members Exchange (MEMX)
MIAX Options, MIAX PEARL Options, MIAX PEARL
Equities, and MIAX Emerald
Morgan Stanley
Nasdaq
NASDAQ Canada (CXC, CXD, CX2)
NASDAQ ISE
Neo Aequitas
NYFIX Marketplace
Omega
<u>OneChicago</u>
OTC Markets Group
TD Ameritrade
TMX Group

### Note 3: Connectivity to Third Party Data Feeds

Pricing for data feeds from third party markets and other service providers (Third Party Data Feeds) is for connectivity only. Connectivity to Third Party Data Feeds is subject to any technical provisioning requirements, authorization, and licensing from the provider of the data feed. Connectivity to Third Party Data Feeds is over the IDS Network. Fees for Third Party Data Feeds are charged by the provider of such data feeds. Third Party Data Feed providers may charge redistribution fees. When IDS is charged a redistribution fee, IDS passes the charge through to the customer, without change to the fee. The fee is labeled as a pass-through of a redistribution fee on the customer's invoice. IDS does not charge third party markets or content providers for connectivity to their own feeds. IDS is not the exclusive method to connect to Third Party Data Feeds.

### Note 4: NMS Network

When an NCL Customer purchases access to the NMS Network, upon its request, it will receive connectivity to any of the NMS feeds that it selects, subject to any necessary technical provisioning requirements, authorization, and licensing from the provider of such NMS feed. Fees for the NMS feeds are charged by the provider of such NMS feed. The NMS feeds are as follows:

NMS feeds	
CTS	
CQS	
OPRA	

\* \* \* \* \*