

Office of the Secretariat
Commodity Futures Trading Commission
Three Lafayette Centre
1155 21st Street, N.W.
Washington, DC 20581

Pursuant to section 5c(c)(1) of the Commodity Exchange Act, as amended (the 'Act'), and section 41.23 of the regulations promulgated by the Commodity Futures Trading Commission (the 'Commission') under the Act, submitted herewith are contract specifications for a new product or products, as appropriate, (the 'New Product') that will be listed for trading on OneChicago, LLC ('OneChicago'). The New Product will be subject to the Rules set forth in Chapter IX of the OneChicago Rulebook, as supplemented by the specifications supplement attached hereto.

OneChicago hereby certifies that: (a) the security underlying the New Product satisfies the requirements of section 41.21 of the regulations promulgated by the Commission under the Act; (b) if the New Product is physically settled, arrangements are in place with a clearing agency registered pursuant to section 17A of the Securities Exchange Act of 1934 (the 'Exchange Act') for the payment and delivery of the security underlying the New Product; (c) only futures commission merchants, introducing brokers, commodity trading advisors, commodity pool operators or associated persons subject to suitability rules comparable to those of a national securities association registered pursuant to section 15A(a) of the Exchange Act and the rules and regulations thereunder, except to the extent otherwise permitted under the Exchange Act and the rules and regulations thereunder, may solicit, accept any order for, or otherwise deal in any transaction in or in connection with the New Product; (d) dual trading in the New Product is restricted in accordance with section 41.27 of the regulations promulgated by the Commission under the Act; (e) trading in the New Product is not readily susceptible to manipulation of the price of any New Product, nor to causing or being used in the manipulation of the price of any underlying security, option on such security, or option on a group or index including such security, consistent with the conditions for trading of section 41.25 of the regulations promulgated by the Commission under the Act; (f) procedures are in place for coordinated surveillance among OneChicago, any market on which the security underlying a New Product is traded and other markets on which any related security is traded to detect manipulation and insider trading; (g) an audit trail is in place to facilitate coordinated surveillance among OneChicago, any market on which the security underlying the New Product is traded, and any market on which any related security is traded; (h) procedures are in place to coordinate regulatory trading halts between OneChicago and markets on which the security underlying the New Product is traded and other markets on which any related security is traded; and (i) the margin requirements for the New Product will comply with the provisions specified in sections 41.43 through 41.48 of the regulations promulgated by the Commission under the Act.

OneChicago hereby further certifies that the New Product complies with the additional conditions for trading set forth in section 41.25 of the regulations promulgated by the Commission under the Act, and complies with the Act and the regulations thereunder.

Respectfully Submitted,

OneChicago, LLC

Product Listing

Action	Sup. No.	Symbol	Primary Symbol	Primary CUSIP	Mult.	Expiry Cycle	Settlement Type	Settlement Cycle	Dividend Exposure	Regulatory Symbol	Effective Date
NEW	46567	MDLA1D	MDLA	584021109	100.000000	SSQQ	PHYS	T+2	NDR	JSYL1	20191205
NEW	46568	MDLA1I	MDLA	584021109	100.000000	I	PHYS	T+2	NDR	JSKY1	20191205
NEW	46569	MDLA1J	MDLA	584021109	100.000000	J	PHYS	T+2	NDR	JSKY1	20191205
NEW	46570	MDLA1K	MDLA	584021109	100.000000	K	PHYS	T+2	NDR	JSKY1	20191205
NEW	46571	MDLA1L	MDLA	584021109	100.000000	L	PHYS	T+2	NDR	JSKY1	20191205
NEW	46572	MDLA1M	MDLA	584021109	100.000000	1M	PHYS	T+1	NDR	ENPH1	20191205
NEW	46573	MDLA1T	MDLA	584021109	100.000000	1T	PHYS	T+1	NDR	ENPH1	20191205
NEW	46574	MDLA1W	MDLA	584021109	100.000000	1W	PHYS	T+1	NDR	ENPH1	20191205
NEW	46575	MDLA1H	MDLA	584021109	100.000000	1H	PHYS	T+1	NDR	ENPH1	20191205
NEW	46576	MDLA1F	MDLA	584021109	100.000000	1F	PHYS	T+1	NDR	ENPH1	20191205
NEW	46577	MDLA2M	MDLA	584021109	100.000000	2M	PHYS	T+1	NDR	ENPH1	20191205
NEW	46578	MDLA2T	MDLA	584021109	100.000000	2T	PHYS	T+1	NDR	ENPH1	20191205
NEW	46579	MDLA2W	MDLA	584021109	100.000000	2W	PHYS	T+1	NDR	ENPH1	20191205
NEW	46580	MDLA2H	MDLA	584021109	100.000000	2H	PHYS	T+1	NDR	ENPH1	20191205
NEW	46581	MDLA2F	MDLA	584021109	100.000000	2F	PHYS	T+1	NDR	ENPH1	20191205
NEW	46582	MDLA3M	MDLA	584021109	100.000000	3M	PHYS	T+1	NDR	ENPH1	20191205
NEW	46583	MDLA3T	MDLA	584021109	100.000000	3T	PHYS	T+1	NDR	ENPH1	20191205
NEW	46584	MDLA3W	MDLA	584021109	100.000000	3W	PHYS	T+1	NDR	ENPH1	20191205
NEW	46585	MDLA3H	MDLA	584021109	100.000000	3H	PHYS	T+1	NDR	ENPH1	20191205
NEW	46586	MDLA3F	MDLA	584021109	100.000000	3F	PHYS	T+1	NDR	ENPH1	20191205
NEW	46587	MDLA4M	MDLA	584021109	100.000000	4M	PHYS	T+1	NDR	ENPH1	20191205
NEW	46588	MDLA4T	MDLA	584021109	100.000000	4T	PHYS	T+1	NDR	ENPH1	20191205
NEW	46589	MDLA4W	MDLA	584021109	100.000000	4W	PHYS	T+1	NDR	ENPH1	20191205

NEW	46590	MDLA4H	MDLA	584021109	100.000000	4H	PHYS	T+1	NDR	ENPH1	20191205
NEW	46591	MDLA4F	MDLA	584021109	100.000000	4F	PHYS	T+1	NDR	ENPH1	20191205
NEW	46592	MDLA5M	MDLA	584021109	100.000000	5M	PHYS	T+1	NDR	ENPH1	20191205
NEW	46593	MDLA5T	MDLA	584021109	100.000000	5T	PHYS	T+1	NDR	ENPH1	20191205
NEW	46594	MDLA5W	MDLA	584021109	100.000000	5W	PHYS	T+1	NDR	ENPH1	20191205
NEW	46595	MDLA5H	MDLA	584021109	100.000000	5H	PHYS	T+1	NDR	ENPH1	20191205
NEW	46596	MDLA5F	MDLA	584021109	100.000000	5F	PHYS	T+1	NDR	ENPH1	20191205

How To Read This Document

EXPIRY CYCLE

SSQQ - A monthly expiration cycle that lists two serial months and two following quarters expiring on the third Friday of each month.

SS - A monthly expiration cycle that lists two serial months expiring on the third Friday of each month.

[1-5][M-F] - Signifies the weekly expiration cycle. Weekly contracts are listed for 7 day terms, by the day of the week and the weekday occurrence in the month.

I,J,K,L - Signifies the Friday Future expiration cycle. Friday Future contracts expire on every Friday of the month except the third Friday. Where I is the first Friday, J is the second Friday, K is the fourth Friday, and L is the fifth Friday of the month.

SETTLEMENT TYPE

PHYS - Physical underlying settlement for all components that make up the future listing.

CASH - Cash value settlement for all components that make up the future listing.

SETTLEMENT CYCLE

T+1 - For each underlying security, settlement takes place the 1st business day after expiration.

T+2 - For each underlying security, settlement takes place the 2nd business day after expiration.

DIVIDEND EXPOSURE

TRA - The traditional single stock future product has no adjustments made to the previous day's settlement price.

NDR - On dividend ex-date, the previous day's settlement price is adjusted down for the amount of the declared distributions.

ACTION

NEW - Initial listing announcement. Properties of this product have changed prior to its effective date.

UPDATE - This product has already been announced. Before the effective date, properties of this product have changed.

DELETE - This product has already been announced and will not longer be listed.

EFFECTIVE DATE

When Action is NEW or UPDATE, the effective date is the first available date.

When Action is DELETE, the effective date is the delisting date.

How To Read This Document

POSITION LIMIT

Position limits are stated in contracts of single stock futures. For the purpose of assessing position limits, all positions in SSFs containing the same underlying security with contracts that expire on the same day are aggregated.

Product Definition - Supplement

SUPPLEMENT NO	46567
FUTURE NAME	MDLA T2 P NDR
FUTURE SYMBOL	MDLA1D
REGULATORY SYMBOL	JSYL1
MULTIPLIER	100.000000
EXPIRATION CYCLE	SSQQ
SETTLEMENT TYPE	PHYS
SETTLEMENT CYCLE	T+2
DIVIDEND EXPOSURE	NDR
POSITION LIMIT	None
<u>UNDERLYING</u>	
SECURITY NAME	Medallia Inc
SECURITY SYMBOL	MDLA
SECURITY CUSIP/CINS	584021109
SECURITY TYPE	Common Stock
SECURITY SHARES	100.000000

Product Definition - Supplement

SUPPLEMENT NO	46568
FUTURE NAME	MDLA T2 P NDR
FUTURE SYMBOL	MDLA1I
REGULATORY SYMBOL	JSKY1
MULTIPLIER	100.000000
EXPIRATION CYCLE	I
SETTLEMENT TYPE	PHYS
SETTLEMENT CYCLE	T+2
DIVIDEND EXPOSURE	NDR
POSITION LIMIT	None
<u>UNDERLYING</u>	
SECURITY NAME	Medallia Inc
SECURITY SYMBOL	MDLA
SECURITY CUSIP/CINS	584021109
SECURITY TYPE	Common Stock
SECURITY SHARES	100.000000

Product Definition - Supplement

SUPPLEMENT NO	46569
FUTURE NAME	MDLA T2 P NDR
FUTURE SYMBOL	MDLA1J
REGULATORY SYMBOL	JSKY1
MULTIPLIER	100.000000
EXPIRATION CYCLE	J
SETTLEMENT TYPE	PHYS
SETTLEMENT CYCLE	T+2
DIVIDEND EXPOSURE	NDR
POSITION LIMIT	None
<u>UNDERLYING</u>	
SECURITY NAME	Medallia Inc
SECURITY SYMBOL	MDLA
SECURITY CUSIP/CINS	584021109
SECURITY TYPE	Common Stock
SECURITY SHARES	100.000000

Product Definition - Supplement

SUPPLEMENT NO	46570
FUTURE NAME	MDLA T2 P NDR
FUTURE SYMBOL	MDLA1K
REGULATORY SYMBOL	JSKY1
MULTIPLIER	100.000000
EXPIRATION CYCLE	K
SETTLEMENT TYPE	PHYS
SETTLEMENT CYCLE	T+2
DIVIDEND EXPOSURE	NDR
POSITION LIMIT	None
<u>UNDERLYING</u>	
SECURITY NAME	Medallia Inc
SECURITY SYMBOL	MDLA
SECURITY CUSIP/CINS	584021109
SECURITY TYPE	Common Stock
SECURITY SHARES	100.000000

Product Definition - Supplement

SUPPLEMENT NO	46571
FUTURE NAME	MDLA T2 P NDR
FUTURE SYMBOL	MDLA1L
REGULATORY SYMBOL	JSKY1
MULTIPLIER	100.000000
EXPIRATION CYCLE	L
SETTLEMENT TYPE	PHYS
SETTLEMENT CYCLE	T+2
DIVIDEND EXPOSURE	NDR
POSITION LIMIT	None
<u>UNDERLYING</u>	
SECURITY NAME	Medallia Inc
SECURITY SYMBOL	MDLA
SECURITY CUSIP/CINS	584021109
SECURITY TYPE	Common Stock
SECURITY SHARES	100.000000

Product Definition - Supplement

SUPPLEMENT NO	46572
FUTURE NAME	MDLA T1 P NDR
FUTURE SYMBOL	MDLA1M
REGULATORY SYMBOL	ENPH1
MULTIPLIER	100.000000
EXPIRATION CYCLE	1M
SETTLEMENT TYPE	PHYS
SETTLEMENT CYCLE	T+1
DIVIDEND EXPOSURE	NDR
POSITION LIMIT	None
<u>UNDERLYING</u>	
SECURITY NAME	Medallia Inc
SECURITY SYMBOL	MDLA
SECURITY CUSIP/CINS	584021109
SECURITY TYPE	Common Stock
SECURITY SHARES	100.000000

Product Definition - Supplement

SUPPLEMENT NO	46573
FUTURE NAME	MDLA T1 P NDR
FUTURE SYMBOL	MDLA1T
REGULATORY SYMBOL	ENPH1
MULTIPLIER	100.000000
EXPIRATION CYCLE	1T
SETTLEMENT TYPE	PHYS
SETTLEMENT CYCLE	T+1
DIVIDEND EXPOSURE	NDR
POSITION LIMIT	None
<u>UNDERLYING</u>	
SECURITY NAME	Medallia Inc
SECURITY SYMBOL	MDLA
SECURITY CUSIP/CINS	584021109
SECURITY TYPE	Common Stock
SECURITY SHARES	100.000000

Product Definition - Supplement

SUPPLEMENT NO	46574
FUTURE NAME	MDLA T1 P NDR
FUTURE SYMBOL	MDLA1W
REGULATORY SYMBOL	ENPH1
MULTIPLIER	100.000000
EXPIRATION CYCLE	1W
SETTLEMENT TYPE	PHYS
SETTLEMENT CYCLE	T+1
DIVIDEND EXPOSURE	NDR
POSITION LIMIT	None
<u>UNDERLYING</u>	
SECURITY NAME	Medallia Inc
SECURITY SYMBOL	MDLA
SECURITY CUSIP/CINS	584021109
SECURITY TYPE	Common Stock
SECURITY SHARES	100.000000

Product Definition - Supplement

SUPPLEMENT NO	46575
FUTURE NAME	MDLA T1 P NDR
FUTURE SYMBOL	MDLA1H
REGULATORY SYMBOL	ENPH1
MULTIPLIER	100.000000
EXPIRATION CYCLE	1H
SETTLEMENT TYPE	PHYS
SETTLEMENT CYCLE	T+1
DIVIDEND EXPOSURE	NDR
POSITION LIMIT	None
<u>UNDERLYING</u>	
SECURITY NAME	Medallia Inc
SECURITY SYMBOL	MDLA
SECURITY CUSIP/CINS	584021109
SECURITY TYPE	Common Stock
SECURITY SHARES	100.000000

Product Definition - Supplement

SUPPLEMENT NO	46576
FUTURE NAME	MDLA T1 P NDR
FUTURE SYMBOL	MDLA1F
REGULATORY SYMBOL	ENPH1
MULTIPLIER	100.000000
EXPIRATION CYCLE	1F
SETTLEMENT TYPE	PHYS
SETTLEMENT CYCLE	T+1
DIVIDEND EXPOSURE	NDR
POSITION LIMIT	None
<u>UNDERLYING</u>	
SECURITY NAME	Medallia Inc
SECURITY SYMBOL	MDLA
SECURITY CUSIP/CINS	584021109
SECURITY TYPE	Common Stock
SECURITY SHARES	100.000000

Product Definition - Supplement

SUPPLEMENT NO	46577
FUTURE NAME	MDLA T1 P NDR
FUTURE SYMBOL	MDLA2M
REGULATORY SYMBOL	ENPH1
MULTIPLIER	100.000000
EXPIRATION CYCLE	2M
SETTLEMENT TYPE	PHYS
SETTLEMENT CYCLE	T+1
DIVIDEND EXPOSURE	NDR
POSITION LIMIT	None
<u>UNDERLYING</u>	
SECURITY NAME	Medallia Inc
SECURITY SYMBOL	MDLA
SECURITY CUSIP/CINS	584021109
SECURITY TYPE	Common Stock
SECURITY SHARES	100.000000

Product Definition - Supplement

SUPPLEMENT NO	46578
FUTURE NAME	MDLA T1 P NDR
FUTURE SYMBOL	MDLA2T
REGULATORY SYMBOL	ENPH1
MULTIPLIER	100.000000
EXPIRATION CYCLE	2T
SETTLEMENT TYPE	PHYS
SETTLEMENT CYCLE	T+1
DIVIDEND EXPOSURE	NDR
POSITION LIMIT	None
<u>UNDERLYING</u>	
SECURITY NAME	Medallia Inc
SECURITY SYMBOL	MDLA
SECURITY CUSIP/CINS	584021109
SECURITY TYPE	Common Stock
SECURITY SHARES	100.000000

Product Definition - Supplement

SUPPLEMENT NO	46579
FUTURE NAME	MDLA T1 P NDR
FUTURE SYMBOL	MDLA2W
REGULATORY SYMBOL	ENPH1
MULTIPLIER	100.000000
EXPIRATION CYCLE	2W
SETTLEMENT TYPE	PHYS
SETTLEMENT CYCLE	T+1
DIVIDEND EXPOSURE	NDR
POSITION LIMIT	None
<u>UNDERLYING</u>	
SECURITY NAME	Medallia Inc
SECURITY SYMBOL	MDLA
SECURITY CUSIP/CINS	584021109
SECURITY TYPE	Common Stock
SECURITY SHARES	100.000000

Product Definition - Supplement

SUPPLEMENT NO	46580
FUTURE NAME	MDLA T1 P NDR
FUTURE SYMBOL	MDLA2H
REGULATORY SYMBOL	ENPH1
MULTIPLIER	100.000000
EXPIRATION CYCLE	2H
SETTLEMENT TYPE	PHYS
SETTLEMENT CYCLE	T+1
DIVIDEND EXPOSURE	NDR
POSITION LIMIT	None
<u>UNDERLYING</u>	
SECURITY NAME	Medallia Inc
SECURITY SYMBOL	MDLA
SECURITY CUSIP/CINS	584021109
SECURITY TYPE	Common Stock
SECURITY SHARES	100.000000

Product Definition - Supplement

SUPPLEMENT NO	46581
FUTURE NAME	MDLA T1 P NDR
FUTURE SYMBOL	MDLA2F
REGULATORY SYMBOL	ENPH1
MULTIPLIER	100.000000
EXPIRATION CYCLE	2F
SETTLEMENT TYPE	PHYS
SETTLEMENT CYCLE	T+1
DIVIDEND EXPOSURE	NDR
POSITION LIMIT	None
<u>UNDERLYING</u>	
SECURITY NAME	Medallia Inc
SECURITY SYMBOL	MDLA
SECURITY CUSIP/CINS	584021109
SECURITY TYPE	Common Stock
SECURITY SHARES	100.000000

Product Definition - Supplement

SUPPLEMENT NO	46582
FUTURE NAME	MDLA T1 P NDR
FUTURE SYMBOL	MDLA3M
REGULATORY SYMBOL	ENPH1
MULTIPLIER	100.000000
EXPIRATION CYCLE	3M
SETTLEMENT TYPE	PHYS
SETTLEMENT CYCLE	T+1
DIVIDEND EXPOSURE	NDR
POSITION LIMIT	None
<u>UNDERLYING</u>	
SECURITY NAME	Medallia Inc
SECURITY SYMBOL	MDLA
SECURITY CUSIP/CINS	584021109
SECURITY TYPE	Common Stock
SECURITY SHARES	100.000000

Product Definition - Supplement

SUPPLEMENT NO	46583
FUTURE NAME	MDLA T1 P NDR
FUTURE SYMBOL	MDLA3T
REGULATORY SYMBOL	ENPH1
MULTIPLIER	100.000000
EXPIRATION CYCLE	3T
SETTLEMENT TYPE	PHYS
SETTLEMENT CYCLE	T+1
DIVIDEND EXPOSURE	NDR
POSITION LIMIT	None
<u>UNDERLYING</u>	
SECURITY NAME	Medallia Inc
SECURITY SYMBOL	MDLA
SECURITY CUSIP/CINS	584021109
SECURITY TYPE	Common Stock
SECURITY SHARES	100.000000

Product Definition - Supplement

SUPPLEMENT NO	46584
FUTURE NAME	MDLA T1 P NDR
FUTURE SYMBOL	MDLA3W
REGULATORY SYMBOL	ENPH1
MULTIPLIER	100.000000
EXPIRATION CYCLE	3W
SETTLEMENT TYPE	PHYS
SETTLEMENT CYCLE	T+1
DIVIDEND EXPOSURE	NDR
POSITION LIMIT	None
<u>UNDERLYING</u>	
SECURITY NAME	Medallia Inc
SECURITY SYMBOL	MDLA
SECURITY CUSIP/CINS	584021109
SECURITY TYPE	Common Stock
SECURITY SHARES	100.000000

Product Definition - Supplement

SUPPLEMENT NO	46585
FUTURE NAME	MDLA T1 P NDR
FUTURE SYMBOL	MDLA3H
REGULATORY SYMBOL	ENPH1
MULTIPLIER	100.000000
EXPIRATION CYCLE	3H
SETTLEMENT TYPE	PHYS
SETTLEMENT CYCLE	T+1
DIVIDEND EXPOSURE	NDR
POSITION LIMIT	None
<u>UNDERLYING</u>	
SECURITY NAME	Medallia Inc
SECURITY SYMBOL	MDLA
SECURITY CUSIP/CINS	584021109
SECURITY TYPE	Common Stock
SECURITY SHARES	100.000000

Product Definition - Supplement

SUPPLEMENT NO	46586
FUTURE NAME	MDLA T1 P NDR
FUTURE SYMBOL	MDLA3F
REGULATORY SYMBOL	ENPH1
MULTIPLIER	100.000000
EXPIRATION CYCLE	3F
SETTLEMENT TYPE	PHYS
SETTLEMENT CYCLE	T+1
DIVIDEND EXPOSURE	NDR
POSITION LIMIT	None
<u>UNDERLYING</u>	
SECURITY NAME	Medallia Inc
SECURITY SYMBOL	MDLA
SECURITY CUSIP/CINS	584021109
SECURITY TYPE	Common Stock
SECURITY SHARES	100.000000

Product Definition - Supplement

SUPPLEMENT NO	46587
FUTURE NAME	MDLA T1 P NDR
FUTURE SYMBOL	MDLA4M
REGULATORY SYMBOL	ENPH1
MULTIPLIER	100.000000
EXPIRATION CYCLE	4M
SETTLEMENT TYPE	PHYS
SETTLEMENT CYCLE	T+1
DIVIDEND EXPOSURE	NDR
POSITION LIMIT	None
<u>UNDERLYING</u>	
SECURITY NAME	Medallia Inc
SECURITY SYMBOL	MDLA
SECURITY CUSIP/CINS	584021109
SECURITY TYPE	Common Stock
SECURITY SHARES	100.000000

Product Definition - Supplement

SUPPLEMENT NO	46588
FUTURE NAME	MDLA T1 P NDR
FUTURE SYMBOL	MDLA4T
REGULATORY SYMBOL	ENPH1
MULTIPLIER	100.000000
EXPIRATION CYCLE	4T
SETTLEMENT TYPE	PHYS
SETTLEMENT CYCLE	T+1
DIVIDEND EXPOSURE	NDR
POSITION LIMIT	None
<u>UNDERLYING</u>	
SECURITY NAME	Medallia Inc
SECURITY SYMBOL	MDLA
SECURITY CUSIP/CINS	584021109
SECURITY TYPE	Common Stock
SECURITY SHARES	100.000000

Product Definition - Supplement

SUPPLEMENT NO	46589
FUTURE NAME	MDLA T1 P NDR
FUTURE SYMBOL	MDLA4W
REGULATORY SYMBOL	ENPH1
MULTIPLIER	100.000000
EXPIRATION CYCLE	4W
SETTLEMENT TYPE	PHYS
SETTLEMENT CYCLE	T+1
DIVIDEND EXPOSURE	NDR
POSITION LIMIT	None
<u>UNDERLYING</u>	
SECURITY NAME	Medallia Inc
SECURITY SYMBOL	MDLA
SECURITY CUSIP/CINS	584021109
SECURITY TYPE	Common Stock
SECURITY SHARES	100.000000

Product Definition - Supplement

SUPPLEMENT NO	46590
FUTURE NAME	MDLA T1 P NDR
FUTURE SYMBOL	MDLA4H
REGULATORY SYMBOL	ENPH1
MULTIPLIER	100.000000
EXPIRATION CYCLE	4H
SETTLEMENT TYPE	PHYS
SETTLEMENT CYCLE	T+1
DIVIDEND EXPOSURE	NDR
POSITION LIMIT	None
<u>UNDERLYING</u>	
SECURITY NAME	Medallia Inc
SECURITY SYMBOL	MDLA
SECURITY CUSIP/CINS	584021109
SECURITY TYPE	Common Stock
SECURITY SHARES	100.000000

Product Definition - Supplement

SUPPLEMENT NO	46591
FUTURE NAME	MDLA T1 P NDR
FUTURE SYMBOL	MDLA4F
REGULATORY SYMBOL	ENPH1
MULTIPLIER	100.000000
EXPIRATION CYCLE	4F
SETTLEMENT TYPE	PHYS
SETTLEMENT CYCLE	T+1
DIVIDEND EXPOSURE	NDR
POSITION LIMIT	None
<u>UNDERLYING</u>	
SECURITY NAME	Medallia Inc
SECURITY SYMBOL	MDLA
SECURITY CUSIP/CINS	584021109
SECURITY TYPE	Common Stock
SECURITY SHARES	100.000000

Product Definition - Supplement

SUPPLEMENT NO	46592
FUTURE NAME	MDLA T1 P NDR
FUTURE SYMBOL	MDLA5M
REGULATORY SYMBOL	ENPH1
MULTIPLIER	100.000000
EXPIRATION CYCLE	5M
SETTLEMENT TYPE	PHYS
SETTLEMENT CYCLE	T+1
DIVIDEND EXPOSURE	NDR
POSITION LIMIT	None
<u>UNDERLYING</u>	
SECURITY NAME	Medallia Inc
SECURITY SYMBOL	MDLA
SECURITY CUSIP/CINS	584021109
SECURITY TYPE	Common Stock
SECURITY SHARES	100.000000

Product Definition - Supplement

SUPPLEMENT NO	46593
FUTURE NAME	MDLA T1 P NDR
FUTURE SYMBOL	MDLA5T
REGULATORY SYMBOL	ENPH1
MULTIPLIER	100.000000
EXPIRATION CYCLE	5T
SETTLEMENT TYPE	PHYS
SETTLEMENT CYCLE	T+1
DIVIDEND EXPOSURE	NDR
POSITION LIMIT	None
<u>UNDERLYING</u>	
SECURITY NAME	Medallia Inc
SECURITY SYMBOL	MDLA
SECURITY CUSIP/CINS	584021109
SECURITY TYPE	Common Stock
SECURITY SHARES	100.000000

Product Definition - Supplement

SUPPLEMENT NO	46594
FUTURE NAME	MDLA T1 P NDR
FUTURE SYMBOL	MDLA5W
REGULATORY SYMBOL	ENPH1
MULTIPLIER	100.000000
EXPIRATION CYCLE	5W
SETTLEMENT TYPE	PHYS
SETTLEMENT CYCLE	T+1
DIVIDEND EXPOSURE	NDR
POSITION LIMIT	None
<u>UNDERLYING</u>	
SECURITY NAME	Medallia Inc
SECURITY SYMBOL	MDLA
SECURITY CUSIP/CINS	584021109
SECURITY TYPE	Common Stock
SECURITY SHARES	100.000000

Product Definition - Supplement

SUPPLEMENT NO	46595
FUTURE NAME	MDLA T1 P NDR
FUTURE SYMBOL	MDLA5H
REGULATORY SYMBOL	ENPH1
MULTIPLIER	100.000000
EXPIRATION CYCLE	5H
SETTLEMENT TYPE	PHYS
SETTLEMENT CYCLE	T+1
DIVIDEND EXPOSURE	NDR
POSITION LIMIT	None
<u>UNDERLYING</u>	
SECURITY NAME	Medallia Inc
SECURITY SYMBOL	MDLA
SECURITY CUSIP/CINS	584021109
SECURITY TYPE	Common Stock
SECURITY SHARES	100.000000

Product Definition - Supplement

SUPPLEMENT NO	46596
FUTURE NAME	MDLA T1 P NDR
FUTURE SYMBOL	MDLA5F
REGULATORY SYMBOL	ENPH1
MULTIPLIER	100.000000
EXPIRATION CYCLE	5F
SETTLEMENT TYPE	PHYS
SETTLEMENT CYCLE	T+1
DIVIDEND EXPOSURE	NDR
POSITION LIMIT	None
<u>UNDERLYING</u>	
SECURITY NAME	Medallia Inc
SECURITY SYMBOL	MDLA
SECURITY CUSIP/CINS	584021109
SECURITY TYPE	Common Stock
SECURITY SHARES	100.000000