

Only one field required	Option	
	Buyer	
	Seller	
	Premium	
	Premium Payment Date	
	Currency Option Style	European unless stated otherwise
	Currency Option Type (Call / Put)	
Only one field required when FX pair is stated	Call Currency and Call Currency Amount	
	Put Currency and Put Currency Amount	
	Strike Price	
	Expiration Date	
	Expiration Time	
	Settlement Date	
Only applicable for cash settled deliverable options	Settlement Rate Option (Spot Rate Reference Source)	
	Settlement Currency	
	Calculation Agent	JPMorgan unless stated otherwise
	Governing Definitions	https://www.jpmorgan.com/country/US/en/disclosures/external-business-conduct

[Forward](#)

Forward Rate

Only one field required when
FX pair is stated

Amount and currency payable by JPMorgan

Amount and currency payable by Counterparty

Settlement Date

Calculation Agent

Governing Definitions

JPMorgan unless stated otherwise

<https://www.jpmorgan.com/country/US/en/disclosures/external-business-conduct>

		NDF \$
Only one field required	Reference Currency Buyer	
	Reference Currency Seller	
		Forward Rate
Only one field required when FX pair is stated	Notional Amount	
	Reference Currency Notional Amount	
	Reference Currency	
	Valuation Date	
		Settlement Date
		Settlement Currency
		USD
Default EMTA definitions for non-deliverable currencies unless stated otherwise	Settlement Rate Option (Spot Rate Reference Source)	http://www.emta.org/ndfft.aspx
	Disruption Fallbacks	http://www.emta.org/ndfft.aspx
	Price Source Disruption	http://www.emta.org/ndfft.aspx
	Other Disruption Fallbacks	http://www.emta.org/ndfft.aspx
	Price Materiality [Applicable to Non-Deliverable Currency Option]	http://www.emta.org/ndfft.aspx
	Primary Rate [Applicable to Non-Deliverable Currency Option]	http://www.emta.org/ndfft.aspx
	Secondary Rate [Applicable to Non-Deliverable Currency Option]	http://www.emta.org/ndfft.aspx
	Price Materiality Percentage [Applicable to Non-Deliverable Currency Option]	http://www.emta.org/ndfft.aspx
	Relevant Cities for Business Day(s) for Valuation Date:	http://www.emta.org/ndfft.aspx
	Relevant City for Business Day for Settlement Date:	http://www.emta.org/ndfft.aspx
	Deferral Period for Unscheduled Holiday	http://www.emta.org/ndfft.aspx
	Unscheduled Holiday	http://www.emta.org/ndfft.aspx
	Valuation Postponement for Price Source Disruption	http://www.emta.org/ndfft.aspx
	Fallback Survey Valuation Postponement	http://www.emta.org/ndfft.aspx
	Cumulative Events	http://www.emta.org/ndfft.aspx
	Maximum Days of Postponement	http://www.emta.org/ndfft.aspx
Calculation Agent		JPMorgan unless stated otherwise
Governing Definitions		https://www.jpmorgan.com/country/US/en/disclosures/external-business-conduct

	NDF non \$	
Only one field required	Reference Currency Buyer Reference Currency Seller Forward Rate	
Only one field required when FX pair is stated	Notional Amount Reference Currency Notional Amount Reference Currency Valuation Date Settlement Date Settlement Currency Settlement Rate Option (Spot Rate Reference Source) for the Settlement Currency	
Default EMTA definitions for non-deliverable currencies unless stated otherwise non-deliverable currencies	Cross Currency Settlement Rate	The Cross Currency Settlement Rate shall be determined for the Valuation Date with reference to the Reference Currency Spot Rate and the Settlement Spot Rate, each as determined for the Valuation Date
	Settlement Rate Option (Spot Rate Reference Source) for the Reference Currency	http://www.emta.org/ndftt.aspx
	Disruption Fallbacks	http://www.emta.org/ndftt.aspx
	Price Source Disruption	http://www.emta.org/ndftt.aspx
	Other Disruption Fallbacks	http://www.emta.org/ndftt.aspx
	Price Materiality [Applicable to Non-Deliverable Currency Option]	http://www.emta.org/ndftt.aspx
	Primary Rate [Applicable to Non-Deliverable Currency Option]	http://www.emta.org/ndftt.aspx
	Secondary Rate [Applicable to Non-Deliverable Currency Option]	http://www.emta.org/ndftt.aspx
	Price Materiality Percentage [Applicable to Non-Deliverable Currency Option]	http://www.emta.org/ndftt.aspx
	Relevant Cities for Business Day(s) for Valuation Date:	http://www.emta.org/ndftt.aspx
	Relevant City for Business Day for Settlement Date:	http://www.emta.org/ndftt.aspx
	Deferral Period for Unscheduled Holiday	http://www.emta.org/ndftt.aspx
	Unscheduled Holiday	http://www.emta.org/ndftt.aspx
	Valuation Postponement for Price Source Disruption	http://www.emta.org/ndftt.aspx
	Fallback Survey Valuation Postponement	http://www.emta.org/ndftt.aspx
	Cumulative Events	http://www.emta.org/ndftt.aspx
	Maximum Days of Postponement	http://www.emta.org/ndftt.aspx
	Calculation Agent	JPMorgan unless stated otherwise
	Governing Definitions	https://www.jpmorgan.com/country/US/en/disclosures/external-business-conduct

NDO \$		
Only one field required	Buyer	
	Seller	
	Premium	
	Premium Payment Date	
Only one field required when FX pair is stated	Currency Option Style	European unless stated otherwise
	Currency Option Type (Call / Put)	
	Call Currency and Call Currency Amount	
	Put Currency and Put Currency Amount	
Default EMTA definitions for non-deliverable currencies unless stated otherwise non-deliverable currencies	Strike Price	
	Settlement Currency	USD
	Valuation Date	
	Settlement Date	
	Settlement Rate Option (Spot Rate Reference Source)	http://www.emta.org/ndfft.aspx
	Disruption Fallbacks	http://www.emta.org/ndfft.aspx
	Price Source Disruption	http://www.emta.org/ndfft.aspx
	Other Disruption Fallbacks	http://www.emta.org/ndfft.aspx
	Price Materiality [Applicable to Non-Deliverable Currency Option]	http://www.emta.org/ndfft.aspx
	Primary Rate [Applicable to Non-Deliverable Currency Option]	http://www.emta.org/ndfft.aspx
	Secondary Rate [Applicable to Non-Deliverable Currency Option]	http://www.emta.org/ndfft.aspx
	Price Materiality Percentage [Applicable to Non-Deliverable Currency Option]	http://www.emta.org/ndfft.aspx
Calculation Agent	Relevant Cities for Business Day(s) for Valuation Date:	http://www.emta.org/ndfft.aspx
	Relevant City for Business Day for Settlement Date:	http://www.emta.org/ndfft.aspx
	Deferral Period for Unscheduled Holiday	http://www.emta.org/ndfft.aspx
	Unscheduled Holiday	http://www.emta.org/ndfft.aspx
	Valuation Postponement for Price Source Disruption	http://www.emta.org/ndfft.aspx
	Fallback Survey Valuation Postponement	http://www.emta.org/ndfft.aspx
	Cumulative Events	http://www.emta.org/ndfft.aspx
	Maximum Days of Postponement	http://www.emta.org/ndfft.aspx
	Governing Definitions	JPMorgan unless stated otherwise https://www.jpmorgan.com/country/US/en/disclosures/external-business-conduct

	NDO non \$	
	<div> <div>Only one field required</div> <div> <div>Buyer</div> <div>Seller</div> </div> </div>	
	<div> <div>Premium</div> <div>Premium Payment Date</div> </div>	
	<div> <div>Currency Option Style</div> <div>Currency Option Type (Call / Put)</div> </div> <div>European unless stated otherwise</div>	
	<div> <div>Only one field required when FX pair is stated</div> <div> <div>Call Currency and Call Currency Amount</div> <div>Put Currency and Put Currency Amount</div> </div> </div>	
	<div> <div>Strike Price</div> <div>Valuation Date</div> <div>Settlement Date</div> <div>Settlement Currency</div> <div>Settlement Rate Option (Spot Rate Reference Source) for the Settlement Currency</div> </div>	
<div>Default EMTA definitions for non-deliverable currencies unless stated otherwise</div>	<div>Cross Currency Settlement Rate</div> <div>The Cross Currency Settlement Rate shall be determined for the Valuation Date with reference to the Reference Currency Spot Rate and the Settlement Spot Rate, each as determined for the Valuation Date</div>	
	<div>Settlement Rate Option (Spot Rate Reference Source) for the Reference Currency</div> <div>http://www.emta.org/ndftt.aspx</div>	
	<div>Disruption Fallbacks</div> <div>http://www.emta.org/ndftt.aspx</div>	
	<div>Price Source Disruption</div> <div>http://www.emta.org/ndftt.aspx</div>	
	<div>Other Disruption Fallbacks</div> <div>http://www.emta.org/ndftt.aspx</div>	
	<div>Price Materiality [Applicable to Non-Deliverable Currency Option]</div> <div>http://www.emta.org/ndftt.aspx</div>	
	<div>Primary Rate [Applicable to Non-Deliverable Currency Option]</div> <div>http://www.emta.org/ndftt.aspx</div>	
	<div>Secondary Rate [Applicable to Non-Deliverable Currency Option]</div> <div>http://www.emta.org/ndftt.aspx</div>	
	<div>Price Materiality Percentage [Applicable to Non-Deliverable Currency Option]</div> <div>http://www.emta.org/ndftt.aspx</div>	
	<div>Relevant Cities for Business Day(s) for Valuation Date:</div> <div>http://www.emta.org/ndftt.aspx</div>	
	<div>Relevant City for Business Day for Settlement Date:</div> <div>http://www.emta.org/ndftt.aspx</div>	
	<div>Deferral Period for Unscheduled Holiday</div> <div>http://www.emta.org/ndftt.aspx</div>	
	<div>Unscheduled Holiday</div> <div>http://www.emta.org/ndftt.aspx</div>	
	<div>Valuation Postponement for Price Source Disruption</div> <div>http://www.emta.org/ndftt.aspx</div>	
	<div>Fallback Survey Valuation Postponement</div> <div>http://www.emta.org/ndftt.aspx</div>	
	<div>Cumulative Events</div> <div>http://www.emta.org/ndftt.aspx</div>	
	<div>Maximum Days of Postponement</div> <div>http://www.emta.org/ndftt.aspx</div>	
<div>Calculation Agent</div> <div>Governing Definitions</div>		<div>JPMorgan unless stated otherwise</div> <div>https://www.jpmorgan.com/country/US/en/disclosures/external-business-conduct</div>

[Option \(American Style\)](#)

Only one field required

Buyer
Seller

Premium

Premium Payment Date

Currency Option StyleAmerican

Currency Option Type (Call / Put)

Only one field required when
FX pair is stated

Call Currency and Call Currency Amount
Put Currency and Put Currency Amount

Strike Price

Exercise Period

Latest Exercise Time

Expiration Date

Expiration Time

Settlement Date

Calculation AgentJPMorgan unless stated otherwise

Governing Definitions<https://www.jpmorgan.com/country/US/en/disclosures/external-business-conduct>

American Forward

Only one field required	Exercise Buy
	Exercise Seller

Forward Rate

Only one field required when FX pair is stated	Amount and currency payable by JPMorgan (American Style)
	Amount and currency payable by Counterparty (American Style)

Latest Exercise Time

Exercise Period

Minimum Exchange Amount

Final Settlement Date

Calculation Agent

Governing Definitions

JPMorgan unless stated otherwise
<https://www.jpmorgan.com/country/US/en/disclosures/external-business-conduct>

Only one field required		Forward Start NDF Reference Currency Buyer Reference Currency Seller	The Forward Rate will be determined by the Calculation Agent by reference to the Forward Rate Fixing Source as of the Forward Rate Set Date, [plus or minus / multiplied by] the Adjustment.
		Forward Rate Forward Rate Set Date Forward Rate Fixing Source Adjustment	
Only one field required when FX pair is stated		Notional Amount Reference Currency Notional Amount Reference Currency Valuation Date Settlement Date Settlement Currency	
Default EMTA definitions for non-deliverable currencies unless stated otherwise	Settlement Rate Option (Spot Rate Reference Source)	http://www.emta.org/ndfft.aspx	
	Disruption Fallbacks	http://www.emta.org/ndfft.aspx	
	Price Source Disruption	http://www.emta.org/ndfft.aspx	
	Other Disruption Fallbacks	http://www.emta.org/ndfft.aspx	
	Price Materiality [Applicable to Non-Deliverable Currency Option]	http://www.emta.org/ndfft.aspx	
	Primary Rate [Applicable to Non-Deliverable Currency Option]	http://www.emta.org/ndfft.aspx	
	Secondary Rate [Applicable to Non-Deliverable Currency Option]	http://www.emta.org/ndfft.aspx	
	Price Materiality Percentage [Applicable to Non-Deliverable Currency Option]	http://www.emta.org/ndfft.aspx	
	Relevant Cities for Business Day(s) for Valuation Date:	http://www.emta.org/ndfft.aspx	
	Relevant City for Business Day for Settlement Date:	http://www.emta.org/ndfft.aspx	
	Deferral Period for Unscheduled Holiday	http://www.emta.org/ndfft.aspx	
	Unscheduled Holiday	http://www.emta.org/ndfft.aspx	
	Valuation Postponement for Price Source Disruption	http://www.emta.org/ndfft.aspx	
	Fallback Survey Valuation Postponement	http://www.emta.org/ndfft.aspx	
Cumulative Events	http://www.emta.org/ndfft.aspx		
Maximum Days of Postponement	http://www.emta.org/ndfft.aspx		
Calculation Agent		JPMorgan unless stated otherwise	
Governing Definitions		https://www.jpmorgan.com/country/US/en/disclosures/external-business-conduct	

JPMorgan Counterparty	Barrier	Only one field required	Buyer Seller	
Joint	Premium			
European	Currency Option Style			European unless stated otherwise
American	Currency Option Type (Call / Put)			
Knock-Out	Only one field required when FX pair is stated	Call Currency and Call Currency Amount Put Currency and Put Currency Amount		
Knock-In	Strike Price			
Greater than or equal to the Barrier Level	Expiration Time			
Less than or equal to the Barrier Level	Valuation Date / Expiration Date			
Double Knock-Out	Settlement Date			[Date / # Biz days following Barrier Event]
Double Knock-In	Premium Payment Date			
	Only applicable for cash settlement	Reference Currency Settlement Currency Settlement Rate Option (Spot Rate Reference Source) (if cash settled / Non-deliverable)		http://www.emta.org/ndftt.aspx
	Default EMTA definitions for non-deliverable currencies unless stated otherwise	Disruption Fallbacks Price Source Disruption Other Disruption Fallbacks Price Materiality [Applicable to Non-Deliverable Currency Option] Primary Rate [Applicable to Non-Deliverable Currency Option] Secondary Rate [Applicable to Non-Deliverable Currency Option] Price Materiality Percentage [Applicable to Non-Deliverable Currency Option] Relevant Cities for Business Day(s) for Valuation Date: Relevant City for Business Day for Settlement Date: Deferral Period for Unscheduled Holiday Unscheduled Holiday Valuation Postponement for Price Source Disruption Fallback Survey Valuation Postponement Cumulative Events Maximum Days of Postponement		http://www.emta.org/ndftt.aspx http://www.emta.org/ndftt.aspx http://www.emta.org/ndftt.aspx http://www.emta.org/ndftt.aspx http://www.emta.org/ndftt.aspx http://www.emta.org/ndftt.aspx http://www.emta.org/ndftt.aspx http://www.emta.org/ndftt.aspx http://www.emta.org/ndftt.aspx http://www.emta.org/ndftt.aspx http://www.emta.org/ndftt.aspx http://www.emta.org/ndftt.aspx http://www.emta.org/ndftt.aspx
	Barrier terms and conditions	Barrier Event Event Type Spot Rate Direction (not applicable to Double barriers) Barrier Level (not applicable to Double barriers) Upper Barrier Level (only applicable to Double barriers) Lower Barrier Level (only applicable to Double barriers) Event Period Start Date and Time (<u>not</u> applicable for American style barriers) Event Period End Date and Time (<u>not</u> applicable for American style barriers) Barrier Event Rate Source Barrier Event Determination Date (only applicable for discrete)		Applicable [Time & Date / Expiration Time and Expiration Date for European style Barrier Event] [Time & Date / Expiration Time and Expiration Date for European style Barrier Event]
	Calculation Agent			JPMorgan unless stated otherwise
	Governing Definitions			https://www.jpmorgan.com/country/US/en/disclosures/external-business-conduct

	Binary	
	Only one field required	Buyer
		Seller
		Premium
		Currency Option Style
		Settlement
		Settlement Currency and Amount
		Expiration Time
		Expiration Date
		Settlement Date
Barrier terms and conditions		Premium Payment Date
		Barrier Event
		Event Type
		Spot Rate Direction (not applicable to Double barriers)
		Barrier Level (not applicable to Double barriers)
		Upper Barrier Level (only applicable to Double barriers)
		Lower Barrier Level (only applicable to Double barriers)
		Event Period Start Date and Time (not applicable for American style barriers)
		Event Period End Date and Time (not applicable for American style barriers)
		Barrier Event Rate Source
		Barrier Event Determination Date (only applicable for discrete)
		Calculation Agent
		Governing Definitions

Binary
Non-Deliverable

[*Date / # Biz days following Barrier Event*]

Applicable

[*Time & Date / Expiration Time and Expiration Date for European style Barrier Event*]

[*Time & Date / Expiration Time and Expiration Date for European style Barrier Event*]

JPMorgan unless stated otherwise
<https://www.jpmorgan.com/country/US/en/disclosures/external-business-conduct>

Only one field required	Average Rate Forward
	Base Currency Buyer Terms Currency Buyer
Only one field required when FX pair is stated	Base Currency and Base Currency Amount Terms Currency and Terms Currency Amount
	Forward Rate Settlement Currency

<i>i</i>	Averaging Dates _{<i>i</i>}	Weight _{<i>i</i>}
1	[Date]	[Weight]
2	[Date]	[Weight]
...

Means the average rate determined by the Calculation Agent as follows, calculated to [dp] decimal places

Settlement Rate

$$\frac{\sum_{i=1}^n (Fixing\ Rate_i \times Weight_i)}{\sum_{i=1}^n Weight_i}$$

Arithmetic

$$1/\left[\frac{\sum_{i=1}^n (1/Fixing\ Rate_i \times Weight_i)}{\sum_{i=1}^n Weight_i}\right]$$

Harmonic

Where *n* = [#]

Settlement Rate Option (Spot Rate Reference Source from which Fixing Rates are derived)

Settlement Amount

If positive then JPMorgan pays the Counterparty, if negative then the Counterparty pays JPMorgan:

Valuation Date

Settlement Date
Settlement

Non-Deliverable

Premium
Premium Payer
Premium Payment Date
Calculation Agent
Governing Definitions

JPMorgan unless stated otherwise
<https://www.jpmorgan.com/country/US/en/disclosures/external-business-conduct>

Only one field required	Average Rate Option
	Buyer Seller
Only one field required when FX pair is stated	Call Currency and Call Currency Amount
	Put Currency and Put Currency Amount

Currency Option Style
Strike Price

European unless stated otherwise

Means the average rate determined by the Calculation Agent
as follows, calculated to [dp] decimal places

Settlement Rate

$$\frac{\sum_{i=1}^n (Fixing\ Rate_i \times Weight_i)}{\sum_{i=1}^n Weight_i}$$

Arithmetic

$$\frac{1}{\frac{1}{\sum_{i=1}^n (1 / Fixing\ Rate_i \times Weight_i)}}$$

Harmonic

Where *n* = [#]

Settlement Rate Option (Spot Rate Reference
Source from which Fixing Rates are derived)

Settlement Amount

An amount if positive is payable by the Seller to the Buyer on
the Settlement Date

Expiration Date
Settlement Date
Settlement
Settlement Currency
Premium
Premium Payer
Premium Payment Date
Calculation Agent
Governing Definitions

Non-Deliverable

JPMorgan unless stated otherwise
<https://www.jpmorgan.com/country/US/en/disclosures/external-business-conduct>

<i>i</i>	Averaging Dates _{<i>i</i>}	Weight _{<i>i</i>}
1	[Date]	[Weight]
2	[Date]	[Weight]
...

Average Strike Forward

Only one field required

Base Currency Buyer

Terms Currency Buyer

Base Currency and Base Currency Amount

Terms Currency and Terms Currency Amount

[CCY & Amount] or [Terms Currency Amount / Forward Rate]

[CCY & Amount] or [Base Currency Amount x Forward Rate]

Means the average rate determined by the Calculation Agent as follows, calculated to [dp] decimal places

$$Adjustment + \frac{\sum_{i=1}^n (Fixing \ Rate_i \times Weight_i)}{\sum_{i=1}^n Weight_i}$$

$$Adjustment + 1 / \left[\frac{\sum_{i=1}^n (1 / Fixing \ Rate_i \times Weight_i)}{\sum_{i=1}^n Weight_i} \right]$$

Forward Rate

Arithmetic

$$(1 + Adjustment) \frac{\sum_{i=1}^n (Fixing \ Rate_i \times Weight_i)}{\sum_{i=1}^n Weight_i}$$

Harmonic

$$(1 + Adjustment) / \left[\frac{\sum_{i=1}^n (1 / Fixing \ Rate_i \times Weight_i)}{\sum_{i=1}^n Weight_i} \right]$$

Where *n* = [#]

[+ve or -ve Forward Rate / %]

Fixing Rate_n

Adjustment

Settlement Rate

Settlement Rate Option (Spot Rate Reference

Source from which Fixing Rates are derived)

If positive then JPMorgan pays the Counterparty, if negative then the Counterparty pays JPMorgan:

Settlement Amount

Valuation Date

Settlement Date

Settlement

Settlement Currency

Premium

Premium Payer

Premium Payment Date

Calculation Agent

Governing Definitions

Non-Deliverable

JPMorgan unless stated otherwise

<https://www.jpmorgan.com/country/US/en/disclosures/external-business-conduct>

<i>i</i>	Averaging Dates _i	Weight _i
1	[Date]	[Weight]
2	[Date]	[Weight]
...

Average Strike Option

Only one field required

Buyer

Seller

Call Currency and Call Currency Amount
Put Currency and Put Currency Amount
Currency Option Style

[CCY & Amount] or [Put Currency Amount / Strike Price] or [Put Currency Amount x Strike Price]
[CCY & Amount] or [Put Currency Amount / Strike Price] or [Put Currency Amount x Strike Price]
European unless stated otherwise
Means the average rate determined by the Calculation Agent
as follows, calculated to [dp] decimal places

i	Averaging Dates _i	Weight _i
1	[Date]	[Weight]
2	[Date]	[Weight]
...

Strike Price

$$Adjustment + \frac{\sum_{i=1}^n (Fixing \ Rate_i \times Weight_i)}{\sum_{i=1}^n Weight_i}$$

Arithmetic

$$(1 + Adjustment) \frac{\sum_{i=1}^n (Fixing \ Rate_i \times Weight_i)}{\sum_{i=1}^n Weight_i}$$

$$Adjustment + 1 / \left[\frac{\sum_{i=1}^n (1 / Fixing \ Rate_i \times Weight_i)}{\sum_{i=1}^n Weight_i} \right]$$

Harmonic

$$(1 + Adjustment) / \left[\frac{\sum_{i=1}^n (1 / Fixing \ Rate_i \times Weight_i)}{\sum_{i=1}^n Weight_i} \right]$$

Adjustment
Settlement Rate
Settlement Rate Option (Spot Rate Reference Source
from which Fixing Rates are derived)

Where *n* = [#]
[+ve or -ve Forward Rate / %]
Fixing Rate_n

An amount if positive is payable by the Seller to the Buyer on
the Settlement Date

Settlement Amount

Expiration Date
Settlement Date
Settlement
Settlement Currency

Non-Deliverable

Premium
Premium Payer
Premium Payment Date
Calculation Agent
Governing Definitions

JPMorgan unless stated otherwise
<https://www.jpmorgan.com/country/US/en/disclosures/external-business-conduct>

Double Average Forward

Only one field required

Base Currency Buyer
Terms Currency Buyer

Base Currency and Base Currency Amount

Terms Currency and Terms Currency Amount

[CCY & Amount] or [Terms Currency Amount / Forward Rate]

[CCY & Amount] or [Base Currency Amount x Forward Rate]

Means the average rate determined by the Calculation Agent as follows, calculated to [dp]

Forward Rate

$$Adjustment + \frac{\sum_{i=1}^n (Fixing \ Rate_i \times Weight_i)}{\sum_{i=1}^n Weight_i}$$

Arithmetic

$$(1 + Adjustment) \frac{\sum_{i=1}^n (Fixing \ Rate_i \times Weight_i)}{\sum_{i=1}^n Weight_i}$$

$$Adjustment + 1 / \left[\frac{\sum_{i=1}^n (1 / Fixing \ Rate_i \times Weight_i)}{\sum_{i=1}^n Weight_i} \right]$$

Harmonic

$$(1 + Adjustment) / \left[\frac{\sum_{i=1}^n (1 / Fixing \ Rate_i \times Weight_i)}{\sum_{i=1}^n Weight_i} \right]$$

Adjustment

Where $n = [\#]$

[+ve or -ve Forward Rate / %]

Means the average rate determined by the Calculation Agent as follows, calculated to [dp]

Settlement Rate

$$\frac{\sum_{j=1}^m (Spot \ Fixing \ Rate_j \times Weight_j)}{\sum_{j=1}^m Weight_j}$$

Arithmetic

$$1 / \left[\frac{\sum_{j=1}^m (1 / Spot \ Fixing \ Rate_j \times Weight_j)}{\sum_{j=1}^m Weight_j} \right]$$

Harmonic

Settlement Rate Option (Spot Rate Reference Source from which Fixing Rates are derived)

Where $m = [\#]$

Settlement Amount

If positive then JPMorgan pays the Counterparty, if negative then the Counterparty pays JPMorgan:

Valuation Date

Settlement Date

Settlement

Settlement Currency

Premium

Premium Payer

Premium Payment Date

Calculation Agent

Non-Deliverable

JPMorgan unless stated otherwise

Governing Definitions

<https://www.jpmorgan.com/country/US/en/disclosures/external-business-conduct>

i	Forward Rate Averaging Dates _i	Weight _i
1	[Date]	[Weight]
2	[Date]	[Weight]
...

j	Spot Averaging Dates _j	Weight _j
1	[Date]	[Weight]
2	[Date]	[Weight]
...

Double Average Rate Option

Only one field required	Buyer
	Seller

Call Currency and Put Currency and Currency Option

[CCY & Amount] or [Put Currency Amount / Strike Price] or [Put Currency Amount x Strike Price]

[CCY & Amount] or [Put Currency Amount / Strike Price] or [Put Currency Amount x Strike Price]

European unless stated otherwise

Means the average rate determined by the Calculation Agent as follows, calculated to [dp] decimal places

Strike Price

$$Adjustment + \frac{\sum_{i=1}^n (Fixing\ Rate_i \times Weight_i)}{\sum_{i=1}^n Weight_i}$$

Arithmetic

$$(1 + Adjustment) \frac{\sum_{i=1}^n (Fixing\ Rate_i \times Weight_i)}{\sum_{i=1}^n Weight_i}$$

$$Adjustment + 1 / \left[\frac{\sum_{i=1}^n (1 / Fixing\ Rate_i \times Weight_i)}{\sum_{i=1}^n Weight_i} \right]$$

Harmonic

$$(1 + Adjustment) / \left[\frac{\sum_{i=1}^n (1 / Fixing\ Rate_i \times Weight_i)}{\sum_{i=1}^n Weight_i} \right]$$

Adjustment Settlement Rate

Where $n = [\#]$

[+ve or -ve Forward Rate / %]

Fixing Rate_n

Means the average rate determined by the Calculation Agent as follows, calculated to [dp] decimal places

Settlement Rate

$$\frac{\sum_{j=1}^m (Spot\ Fixing\ Rate_j \times Weight_j)}{\sum_{j=1}^m Weight_j}$$

Arithmetic

$$1 / \left[\frac{\sum_{j=1}^m (1 / Spot\ Fixing\ Rate_j \times Weight_j)}{\sum_{j=1}^m Weight_j} \right]$$

Harmonic

Settlement Rate Option (Spot Rate)

Where $m = [\#]$

An amount if positive is payable by the Seller to the Buyer on the Settlement Date

Expiration Date

Settlement Date

Settlement

Settlement

Premium

Premium Payer

Premium

Calculation Agent Governing

Non-Deliverable

JPMorgan unless stated otherwise

<https://www.jpmorgan.com/country/US/en/disclosures/external-business-conduct>

i	Averaging Dates _i	Weight _i
1	[Date]	[Weight]
2	[Date]	[Weight]
...

j	Spot Averaging Dates _j	Weight _j
1	[Date]	[Weight]
2	[Date]	[Weight]
...

Currency Basket

Only one field required	Buyer Seller
-------------------------	-----------------

Premium

[Call / Put] Strike denominated amount (“Strike Amt Den

[CCY and Amount]

[Call / Put] Local amount Ccy i (“Amt i Local”):

i

1 [CCY and Amount]

2 [CCY and Amount]

3 [Add as applicable for the number of Basket CCY]

Expiration Date

Settlement Date

Premium Payment Date

Settlement Currency

Calculation Agent

Governing Definitions

JPMorgan unless stated otherwise

<https://www.jpmorgan.com/country/US/en/disclosures/external-business-conduct>

The Settlement Amount will be an amount in [CCY] determined as follows;

BASKET Call, DEN Ccy Put *(for reference only, please delete)*

if Ccy i is quoted as LocalCCyDenCCy, i.e., number of DenCCy per Local CCy *(for reference only, please delete)*

$$\text{MAX} \left(0, \sum_{i=1}^n \left[\text{Amt}_{i, \text{Local}} \cdot \text{FXfinal}_{\text{Den_per_Local}_i} \right] - \text{StrikeAmt}_{\text{Den}} \right)$$

BASKET Call, DEN Ccy Put *(for reference only, please delete)*

if CCy I is quoted as DenCcyLocalCCy, i.e., number of Local CCy per Den CCy *(for reference only, please delete)*

$$\text{MAX} \left(0, \sum_{i=1}^n \left[\text{Amt}_{i, \text{Local}} / \text{FXfinal}_{\text{Local_per_Den}_i} \right] - \text{StrikeAmt}_{\text{Den}} \right)$$

Denominated CCY Call, BASKET Put *(for reference only, please delete)*

if Ccy i is quoted as LocalCCyDenCCy, i.e., number of DenCCy per Local Ccy *(for reference only, please delete)*

$$\text{MAX} \left(0, \text{StrikeAmt}_{\text{Den}} - \sum_{i=1}^n \left[\text{Amt}_{i, \text{Local}} \cdot \text{FXfinal}_{\text{Den_per_Local}_i} \right] \right)$$

Denominated CCY Call, BASKET Put *(for reference only, please delete)*

if CCy I is quoted as DenCcyLocalCCy, i.e., number of Local CCy per Den Ccy *(for reference only, please delete)*

$$\text{MAX} \left(0, \text{StrikeAmt}_{\text{Den}} - \sum_{i=1}^n \left[\text{Amt}_{i, \text{Local}} / \text{FXfinal}_{\text{Local_per_Den}_i} \right] \right)$$

Where;

= [Insert number of CCY’s applicable to BASKET]

i = 1 Means the [CCY / CCY] spot foreign exchange rate expressed as a number of [CCY] required to purchase one [CCY] by reference to [Insert Fixing Source] at [Time and Location] on the Final Valuation Date

i = 2

i = 3 [Add as applicable for the number of Basket CCY]

(c) $\text{FXfinal}_{\text{Den_per_Local}_i}$ Term Definitions

(c) $FX_{final}^{Local_per_Den_i}$ Term Definitions

i = 1 Means the [CCY / CCY] spot foreign exchange rate expressed as a number of [CCY] required to purchase one [CCY] by reference to [Insert Fixing Source]at [Time and Location] on the Final Valuation Date

i = 2

i = 3 [Add as applicable for the number of Basket CCY]

If such Reference Source is not available, by reference to such other source as shall be determined by the Calculation Agent, in good faith

Accumulator Forward		
Only one field required	Base Currency Buyer	
	Terms Currency Buyer	
	Premium	
	Base Currency and Base Currency Amount	See Other Terms and Conditions
	Terms Currency and Terms Currency Amount:	See Other Terms and Conditions
Only applicable for cash settlement	Forward Rate	
	Settlement	
	Reference Currency	
	Settlement Currency	
	Settlement Rate Option (Spot Rate Reference Source)	
Single Trigger Only with no KO	Valuation Date	
	Settlement Date	
	Maximum Currency Amount	
	Premium Payment Date	
	Trigger Level	
Double Trigger Only with no KO	Other Terms and Conditions	
	The [Base/Terms] Currency and Currency Amount will increase by [CCY and Quantity] for each Fixing Reference Date that the Spot Rate by reference to the Spot Rate Reference Source is equal to or [less/greater] than the Trigger Level	
	Upper Trigger Level	
	Lower Trigger Level	
	Other Terms and Conditions	
Single Trigger Only with KO	The [Base/Terms] Currency and Currency Amount will increase by [CCY and Quantity] for each Fixing Reference Date that the Spot Rate by reference to the Spot Rate Reference Source is equal to or less than the Upper Trigger Level and equal to or greater than the Lower Trigger Level	
	Barrier Level	
	Event Period Start Date and Time	
	Event Period End Date and Time	
	Trigger Level	
Double Trigger Only with KO	Other Terms and Conditions	
	The [Base/Terms] Currency and Currency Amount will increase by [CCY and Quantity] for each Fixing Reference Date that the Spot Rate by reference to the Spot Rate Reference Source is equal to or [less/greater] than the Trigger Level, provided that no Knock-Out event has occurred	
	Barrier Level	
	Event Period Start Date and Time	
	Event Period End Date and Time	
Double Trigger Only with KO	Upper Trigger Level	
	Lower Trigger Level	
	Other Terms and Conditions	
	The [Base/Terms] Currency and Currency Amount will increase by [CCY and Quantity] for each Fixing Reference Date that the Spot Rate by reference to the Spot Rate Reference Source is equal to or less than the Upper Trigger Level and equal to or greater than the Lower Trigger Level, provided that no Knock-Out event has occurred	
	Calculation Agent	
	Governing Definitions	
	JPMorgan unless stated otherwise https://www.jpmorgan.com/country/US/en/disclosures/external-business-conduct	

	Fixing Reference Date
1	[Date]
2	[Date]
...	...

Accumulator Option		
Only one field required	Buyer	
	Seller	
	Premium	
	Call Currency and Call Currency Amount	See Other Terms and Conditions
	Put Currency and Put Currency Amount	See Other Terms and Conditions
Only applicable for cash settlement	Strike Price	
	Settlement	
	Reference Currency	
	Settlement Currency	
	Settlement Rate Option (Spot Rate Reference Source)	
	Valuation Date	
	Settlement Date	
	Maximum Currency Amount	
	Premium Payment Date	
	Trigger Level	
Single Trigger Only with no KO	Other Terms and Conditions	The [Call/Put] Currency and Currency Amount will increase by [CCY and Quantity] for each Fixing Reference Date that the Spot Rate by reference to the Spot Rate Reference Source is equal to or [less/greater] than the Trigger Level
Double Trigger Only with no KO	Upper Trigger Level	
	Lower Trigger Level	
Other Terms and Conditions		
Single Trigger Only with KO	Barrier Level	
	Event Period Start Date and Time	
	Event Period End Date and Time	
	Trigger Level	
	Other Terms and Conditions	The [Call/Put] Currency and Currency Amount will increase by [CCY and Quantity] for each Fixing Reference Date that the Spot Rate by reference to the Spot Rate Reference Source is equal to or [less/greater] than the Trigger Level, provided that no Knock-Out event has occurred
Double Trigger Only with KO	Barrier Level	
	Event Period Start Date and Time	
	Event Period End Date and Time	
	Upper Trigger Level	
	Lower Trigger Level	
Other Terms and Conditions		
Calculation Agent		JPMorgan unless stated otherwise
Governing Definitions		https://www.jpmorgan.com/country/US/en/disclosures/external-business-conduct

	Fixing Reference Date
1	[Date]
2	[Date]
...	...

Compound Option		
Only one field required	Buyer	
	Seller	
	Premium	
	Expiration Date	
	Expiration Time	
	Other Terms and Conditions	The Buyer has the right but not the obligation at the Expiration Time on the Expiration Date of the Compound Option to cause the Underlying Currency Option to become effective.
Underlying Option		
Only one field required	Buyer	
	Seller	
	Premium	
	Currency Option Style	European unless stated otherwise
	Currency Option Type (Call / Put)	
	Call Currency and Call Currency Amount	
	Put Currency and Put Currency Amount	
	Strike Price	
Only applicable for American options	Expiration Date	
	Expiration Time	
	Latest Exercise Time	
	Exercise Period	
	Settlement Date	
	Premium Payment Date	
	Calculation Agent	JPMorgan unless stated otherwise
	Governing Definitions	https://www.jpmorgan.com/country/US/en/disclosures/external-business-conduct

Corr Swap

Notional Currency and Amount

Strike %

Settlement

Settlement Currency

Currency Pair 1

Currency Pair 2

Settlement Rate Option (Spot Rate Reference Source) 1

Settlement Rate Option (Spot Rate Reference Source) 2

First Fixing Date

Last Fixing Date

Settlement Date

Premium Amount

Premium Payer

Premium Payment Date

Number of Fixings

Settlement Rate Option (Spot Rate Reference Source)

Calculation Agent

Governing Definitions

Non-Deliverable

<i>i</i>	Fixing Reference Dates _i
1	[Date]
2	[Date]
...	...

Formula Rate Amount A

Formula Rate Amount A Payer

Formula Rate Amount A Payment Date

Formula Rate Amount A

1 $O \times NA \times Maximum$

Formula Rate Amount B

Formula Rate Amount B Payer

Formula Rate Amount B Payment Date

Formula Rate Amount B

1 $O \times NA \times Maximum$

Where

Correlation (“C”):

$$\left(\frac{\sum_{i=1}^n u_i v_i - \left(\sum_{i=1}^n u_i \right) \left(\sum_{i=1}^n v_i \right)}{\sqrt{\sum_{i=1}^n u_i^2} \sqrt{\sum_{i=1}^n v_i^2}} - \frac{\left(\sum_{i=1}^n u_i \right) \left(\sum_{i=1}^n v_i \right)}{\sum_{i=1}^n u_i \sum_{i=1}^n v_i} \right) \times \frac{1}{n}$$

U_i

Means the Spot Rate 1 on the i^{th} Fixing Reference Date

U_{i+1}

Means the Spot Rate 1 on the $i + 1^{th}$ Fixing Reference Date

V_i

Means the Spot Rate 2 on the i^{th} Fixing Reference Date

$$V_{i+1}$$

Means the Spot Rate 2 on the $i + 1^{th}$
 Fixing Reference Date

Where;

$$u_i$$

$$= 1n\left(\frac{U_{i+1}}{U_i}\right)$$

$$v_i$$

$$= 1n\left(\frac{V_{i+1}}{V_i}\right)$$

$$n + 1$$

the total number of Fixing Reference Dates

Dual Currency Investments	
Only one field required	Buyer
	Seller
	Premium
	Effective Date
	Valuation Date
	Settlement Date
	Principal Currency and Principal Amount
	Principal Payer
	Principal Payment Date
	Effective Date
	[INTEREST] % p.a
	Means the spot foreign exchange rate by reference to the Final Source Reference Rate at [insert Time and Location] on the Valuation Date Notwithstanding that the Valuation Date is not subject to any Business Day Convention, in determining the Final Spot Rate on the Valuation Date, the Calculation Agent may consider historical information consisting of relevant market data in the foreign exchange market
	Final Spot Rate
	Strike Price
Use for <u>Guaranteed</u> Coupon	<p>On the Valuation Date;</p> <p>(a) The Final Spot Rate is equal to or [greater/less] than Strike Price, the Seller shall pay to the Buyer an amount in the Principal Currency equal to the sum of Principal Currency and Principal Amount and the Interest Amount; or</p> <p>(b) The Final Spot Rate is [greater/less] than Strike Price, the Seller shall pay to the Buyer an amount in the Alternate Currency equal to the sum of Principal Currency and Principal Amount and the Interest Amount converted at the Strike Price.</p>
Use for <u>Non-Guaranteed</u> Coupon	<p>On the Valuation Date;</p> <p>(a) The Final Spot Rate is equal to or [greater/less] than Strike Price, the Seller shall pay to the Buyer an amount in the Principal Currency equal to the sum of Principal Currency and Principal Amount and the Interest Amount; or</p> <p>(b) The Final Spot Rate is [greater/less] than Strike Price, the Seller shall pay to the Buyer an amount in the Alternate Currency equal to the sum of Principal Currency converted at the Strike Price and an amount in the Principal Currency equal to the Interest Amount</p>
	Business Days for Effective Date
	Business Days for Valuation Date
	Business Days for Settlement Date
	Calculation Agent
	Interest Amount
	Governing Definitions
	JPMorgan unless stated otherwise
	Principle Amount x Interest Rate x Day Count Fraction
	https://www.jpmorgan.com/country/US/en/disclosures/external-business-conduct

Dual Currency At Expiry Digitals

Only one field required

Buyer
Seller

Premium

First In Strike Price

Second In Strike Price

First In Strike Price Reference Source

Second In Strike Price Reference Source

Expiration Date

Settlement Date

Premium Payment date

In-The-Money Amount Settlement

In-The-Money Amount

As set forth in Other Terms and Conditions

Other Terms and Conditions

If, on the Expiration Date, by reference to the First In Strike Price Reference Source, as determine by the Calculation Agent, the Spot Rate is equal to or [less / greater] than the First In Strike Price and by reference to the Second In Strike Price Reference Source, as determine by the Calculation Agent, the Spot Rate is equal to or [less / greater] than the Second In Strike Price then the Seller shall pay the Buyer the In-The-Money Amount
JPMorgan unless stated otherwise
<https://www.jpmorgan.com/country/US/en/disclosures/external-business-conduct>

Calculation Agent
Governing Definitions

Best Of / Worst Of

Only one field required

Buyer
Seller

Premium

Final Valuation Date

Final Settlement Date

Premium

Premium Payment Date

Calculation Agent

Governing Definitions

Option 1

Call Currency and Call Currency Amount

Put Currency and Put Currency Amount

Strike Price

Settlement

JPMorgan unless stated otherwise

<https://www.jpmorgan.com/country/US/en/disclosures/external-business-conduct>

[Deliverable, in accordance with Other Terms and Conditions] / *Note, select for Physically settled

[Non-Deliverable, in accordance with Other Terms and Conditions] *Note, select for Cash settled

[Settlement Currency:]

[CCY] *Note, only select for Cash settled

[Reference Currency:]

[CCY] *Note, only select for Cash settled, this should be the Basket currency

Settlement Rate Option:

*Note, only select for Cash settled, this should be the Basket currency

Option 2

Call Currency and Call Currency Amount

Put Currency and Put Currency Amount

Strike Price

Settlement

[Deliverable, in accordance with Other Terms and Conditions] / *Note, select for Physically settled

[Non-Deliverable, in accordance with Other Terms and Conditions] *Note, select for Cash settled

[Settlement Currency:]

[CCY] *Note, only select for Cash settled

[Reference Currency:]

[CCY] *Note, only select for Cash settled, this should be the Basket currency

Settlement Rate Option:

*Note, only select for Cash settled, this should be the Basket currency

Option i [Add as applicable for the number of Basket CCY]

(b) Other Terms and Conditions:

WORST OF

On the Expiration Date this transaction shall be settled in accordance with the following conditions:

1 If all the three underlying Options are in-the-money from the perspective of the Buyer, then the Seller will select, at its sole discretion, either Option 1 or Option 2 or Option 3 for settlement and notify the Buyer. In the absence of any notification from the Seller, the Option with the lowest positive In-the-Money Amount will be settled. The In-the-Money Amount on all the three underlying Options shall be expressed in [CCY].

2 If one or more underlying Options are out-of-the-money from the perspective of the Buyer, the transaction will be deemed terminated and no further payments shall be due from JPMorgan or the Counterparty. The In-the-Money Amount on all the three underlying Options shall be expressed in [CCY]

3 Both parties acknowledge and agree that only one of the Currency Options forming the subject matter of this Confirmation may be exercised on the Expiration Date.

BEST OF

On the Expiration Date this transaction shall be settled in accordance with the following conditions:

1 If all the three underlying Options are in-the-money from the perspective of the Buyer, then the Buyer will select, at its sole discretion, either Option 1 or Option 2 or Option 3 for settlement and notify the Seller. In the absence of any notification from the Buyer, the Option with the highest positive In-the-Money Amount will be settled. The In-the-Money Amount on all the three underlying Options shall be expressed in [CCY].

2 If one or more underlying Options are out-of-the-money from the perspective of the Buyer, the transaction will be deemed terminated and no further payments shall be due from JPMorgan or the Counterparty. The In-the-Money Amount on all the three underlying Options shall be expressed in [CCY]

3 Both parties acknowledge and agree that only one of the Currency Options forming the subject matter of this Confirmation may be exercised on the Expiration Date.

Forward Volatility Agreement		
Currency Option 1	Buyer Seller Premium Currency Option Style Call Currency and Call Currency Amount Put Currency and Put Currency Amount Strike Price Expiration Date Expiration Time Settlement Date Premium Payment Date Step Date and Step Time	See Other Terms and Conditions [CCY & Amount] / See Other Terms and Conditions [CCY & Amount] / See Other Terms and Conditions See Other Terms and Conditions
Currency Option 2	Buyer Seller Premium Currency Option Style Call Currency and Call Currency Amount Put Currency and Put Currency Amount Strike Price Expiration Date Expiration Time Settlement Date Premium Payment Date Step Date and Step Time	See Other Terms and Conditions [CCY & Amount] / See Other Terms and Conditions [CCY & Amount] / See Other Terms and Conditions See Other Terms and Conditions

Other Terms and Conditions

Calculation Agent
Governing Definitions

The Strike Price and the Premium for this Transaction will be determined on the Step Date at the Step Time, by JPMorgan, calculated using an agreed Volatility of [%] for the [# of months] [Delta Neutral Straddle / At the Money Forward]
JPMorgan unless stated otherwise
<https://www.jpmorgan.com/country/US/en/disclosures/external-business-conduct>

Hokey Cokey		
Only one field required	Buyer	
	Seller	
	Premium	European
	Currency Option Style	
	Currency Option Type (Call / Put)	
Only one field required when FX pair is stated	Call Currency and Call Currency Amount	Non-Deliverable
	Put Currency and Put Currency Amount	
Only applicable for cash settlement	Settlement	
	Reference Currency	
	Settlement Currency	
	Settlement Rate Option (Spot Rate Reference Source)	http://www.emta.org/ndfft.aspx
Only select for non-deliverable currencies	Disruption Fallbacks	http://www.emta.org/ndfft.aspx
	Price Source Disruption	http://www.emta.org/ndfft.aspx
	Other Disruption Fallbacks	http://www.emta.org/ndfft.aspx
	Price Materiality [Applicable to Non-Deliverable C	http://www.emta.org/ndfft.aspx
	Primary Rate [Applicable to Non-Deliverable Curr	http://www.emta.org/ndfft.aspx
	Secondary Rate [Applicable to Non-Deliverable C	http://www.emta.org/ndfft.aspx
	Price Materiality Percentage [Applicable to Non-D	http://www.emta.org/ndfft.aspx
	Relevant Cities for Business Day(s) for Valuation Dat	http://www.emta.org/ndfft.aspx
	Relevant City for Business Day for Settlement Date:	http://www.emta.org/ndfft.aspx
	Deferral Period for Unscheduled Holiday	http://www.emta.org/ndfft.aspx
	Unscheduled Holiday	http://www.emta.org/ndfft.aspx
	Valuation Postponement for Price Source Disruption	http://www.emta.org/ndfft.aspx
	Fallback Survey Valuation Postponement	http://www.emta.org/ndfft.aspx
	Cumulative Events	http://www.emta.org/ndfft.aspx
	Maximum Days of Postponement	http://www.emta.org/ndfft.aspx
	Strike Price	
	In Strike Price	
	Out Strike Price	
	Valuation Date / Expiration Date	
	Expiration Time	
	Settlement Date	
	Premium Payment Date	
	Other terms and Conditions	<p>1. If at [any time from and including the Trade Date to and including] the Expiration Time on the Expiration Date (“Barrier Period”), the Spot Rate, as determined by the Calculation Agent by reference to the Barrier Event Rate Source, is equal to or [greater / less] than the In Strike Price (“Knock In Event”), this Currency Option will be exercisable provided that no Knock Out Event has occurred.</p> <p>2. If at [any time from and including the Trade Date to and including] the Expiration Time on the Expiration Date (“Barrier Period”), the Spot Rate, as determined by the Calculation Agent by reference to the Barrier Event Rate Source, is equal to or [greater / less] than the Out Strike Price this Currency Option will not be exercisable ("Knock Out Event").</p>
	Barrier Event Rate Source	
	Calculation Agent	JPMorgan unless stated otherwise
	Governing Definitions	https://www.jpmorgan.com/country/US/en/disclosures/external-business-conduct

James Bond	
Only one field required	Buyer
	Seller
	Premium
Currency Option Style	European
Expiration Date	
Expiration Time	
Settlement Date	
Premium Payment Date	
Settlement Currency	
Settlement Amount	In-the-Money Amount
	1. If at no time during the Observation Period the Reference Rate is equal to or greater than the Upper Barrier Rate 1 or equal to or less than the Lower Barrier Rate 1 the In-the-Money Amount will equal [CCY] [Amount]
	2. If at any time during the Observation Period the Reference Rate is equal to or greater than the Upper Barrier Rate 1 (Knock Out Event 1), provided that at no time the Reference Rate is equal to or less than the Lower Barrier Rate 1 (Knock Out Event 2), and at no time from the occurrence of Knock Out Event 1 to the Expiration Date, the Reference Rate is equal to or greater than the Upper Barrier Rate 2 or equal to or less than the Lower Barrier Rate 2, the In-the-Money Amount will equal [CCY] [Amount]
Other terms and Conditions	3. If at any time during the Observation Period Knock Out Event 2 occurs, provided no Knock Out Event 1 has occurred, and at no time from the occurrence of Knock Out Event 2 to the Expiration Date, the Reference Rate is equal to or greater than the Upper Barrier Rate 3 or equal to or less than the Lower Barrier Rate 3 the In-the-Money Amount will equal [CCY] [Amount]
	4. If any subsequent Knock Out Event occurs the In-the-Money Amount will equal Zero
Reference Rate	
Lower Barrier Rate 1	
Upper Barrier Rate 1	
Lower Barrier Rate 2	
Upper Barrier Rate 2	
Lower Barrier Rate 3	
Upper Barrier Rate 3	
Observation Period	The period from and including the Trade Date to and including the Expiration Date
Calculation Agent	JPMorgan unless stated otherwise
Governing Definitions	https://www.jpmorgan.com/country/US/en/disclosures/external-business-conduct

VarSwap

Vega Currency and Amount ("VA")

Notional Currency and Amount ("NA")

$$NA = \left(\frac{VA}{0.02 \times Strike} \right)$$

Strike %

Settlement Non-Deliverable

Settlement Currency

Settlement Rate Option (Spot Rate Reference Source)

First Fixing Date

Last Fixing Date

Settlement Date

Premium Amount

Premium Payer

Premium Payment Date

Number of Fixings

Divisor N

Mean Adjusted

Annualization Factor

Calculation Agent JPMorgan unless stated otherwise

Governing Definitions <https://www.ipmorgan.com/country/US/en/disclosures/external-business-conduct>

Formula Rate Amount A

Formula Rate Amount A Payer

Formula Rate Amount A Payment Date

If Quantity Currency = Settlement Currency

$$NA \times Maximum \left(0, RV^2 - Strike^2 \right)$$

If Quantity Currency ≠ Settlement Currency AND
Quantity Currency = TERMS

$$NA \times Maximum \left(0, RV^2 - Strike^2 \right) / S_{n+1}$$

If Quantity Currency ≠ Settlement Currency AND
Quantity Currency = BASE

$$NA \times Maximum \left(0, RV^2 - Strike^2 \right) \times S_{n+1}$$

If Quantity Currency ≠ Settlement Currency AND Other
Quantity Currency ≠ Settlement Currency
* NOTE please have FO and MO deal review if using this
formula

$$NA \times Maximum \left(0, RV^2 - Strike^2 \right) / ([QuantityCCY / SettlementCCY] FinalFix)$$

Formula Rate Amount B

Formula Rate Amount B Payer

Formula Rate Amount B Payment Date

If Quantity Currency = Settlement Currency

$NA \times \text{Maximum} \left(0, Strike^2 - RV^2 \right)$

If Quantity Currency ≠ Settlement Currency AND
Quantity Currency = TERMS

$NA \times \text{Maximum} \left(0, Strike^2 - RV^2 \right) / S_{n+1}$

If Quantity Currency ≠ Settlement Currency AND
Quantity Currency = BASE

$NA \times \text{Maximum} \left(0, Strike^2 - RV^2 \right) \times S_{n+1}$

If Quantity Currency ≠ Settlement Currency AND Other
Quantity Currency ≠ Settlement Currency

* NOTE please have FO and MO deal review if using this
formula

$NA \times \text{Maximum} \left(0, Strike^2 - RV^2 \right) / ([QuantityCCY / SettlementCCY] FinalFix)$

Realised Volatility ("RV")

Calculated as follows

[Mean-adjusted N-1]

$$Realised\ Volatility = \sqrt{\frac{\sum_{i=1}^n (u_i - \bar{u})^2}{(n-1) \Delta t}}$$
$$\bar{u} = \frac{\sum_{i=1}^n u_i}{n}$$
$$u_i = \ln\left(\frac{S_{i+1}}{S_i}\right)$$

[Mean-adjusted N]

$$Realised\ Volatility = \sqrt{\frac{\sum_{i=1}^n (u_i - \bar{u})^2}{(n) \Delta t}}$$
$$\bar{u} = \frac{\sum_{i=1}^n u_i}{n}$$
$$u_i = \ln\left(\frac{S_{i+1}}{S_i}\right)$$

[Not Mean-adjusted N-1]

$$Realised\ Volatility = \sqrt{\frac{\sum_{i=1}^n u_i^2}{(n-1) \Delta t}}$$
$$u_i = \ln\left(\frac{S_{i+1}}{S_i}\right)$$

[Not Mean-adjusted N]

Realised Volatility = $\sqrt{\frac{\sum_{i=1}^n u_i^2}{(n) \Delta t}}$

$u_i = \ln\left(\frac{S_{i+1}}{S_i}\right)$

Where;

Δt = 1 / [INSERT] – *NOTE “Number of Returns / Year” from Athena

S_i = Means the Spot Exchange Rate on the i^{th} Fixing Reference Date

S_{i+1} = Means the Spot Exchange Rate on the $i + 1^{th}$ Fixing Reference Date

$n + 1$ = The Total Number of Fixing Reference Dates

[VolSwap](#)

Only one field required

Buyer
Seller

Premium

Vega Currency and Notional

Strike %

Settlement

Non-Deliverable

Settlement Currency

Settlement Rate Option (Spot Rate Reference Source)

First Fixing Date

Last Fixing Date

Settlement Date

Premium Payment Date

Number of Fixings

Divisor N

Mean Adjusted

Annualization Factor

Calculation Agent

JPMorgan unless stated otherwise

Governing Definitions

<https://www.jpmorgan.com/country/US/en/disclosures/external-business-conduct>