13 Apr 2023 Eurex Clearing

EurexOTC Clear – New products launch: A. Introduction of Czech Koruna (CZK) and Hungarian Forint (HUF) Interest Rate Derivatives; B. Editorial changes to the Clearing Conditions and FCM Regulations for the new products

Eurex Clearing Circular 024/23 EurexOTC Clear – New products launch: A. Introduction of Czech Koruna (CZK) and Hungarian Forint (HUF) Interest Rate Derivatives; B. Editorial changes to the Clearing Conditions and FCM Regulations for the new products

1. Introduction

This circular contains information with respect to Eurex Clearing AG's service offering and corresponding amendments to the Clearing Conditions and FCM Regulations of Eurex Clearing AG ("Clearing Conditions", "FCM Regulations") regarding the following topics:

A. Introduction of the Czech Koruna (CZK) and the Hungarian Forint (HUF) Interest Rate Derivatives for EurexOTC Clear,

B. Editorial changes to the provisions for the clearing of the Czech Koruna (CZK) and the Hungarian Forint (HUF) Interest Rate Derivatives in the Clearing Conditions and FCM Regulations.

The amendments to the Clearing Conditions and FCM Regulations will come into effect as of **8 May 2023**.

2. Required action

Clearing Members, who would like to clear products in the Czech Koruna (CZK) and the Hungarian Forint (HUF) Interest Rate Derivatives for the EurexOTC Clear market, are required to have the necessary bank infrastructure for the

payments in the given currencies. For more setup related questions, please reach out to your dedicated Clearing Key Account Manager or send an e-mail to client.services@eurex.com.

3. Details of the initiative

As announced in Eurex Clearing Circular **007/22**, Eurex Clearing has extended its clearing product offerings for the Czech Koruna (CZK) and the Hungarian Forint (HUF) products technically starting from 27 June 2022. Upon receiving the regulatory approval, Eurex Clearing is pleased to inform its Clearing Members that clearing services for the Czech Koruna (CZK) and the Hungarian Forint (HUF) products for EurexOTC Clear will be offered in the production environment starting from Monday, **8 May 2023**.

A. Product overview

The Czech Koruna (CZK) and the Hungarian Forint (HUF) Interest Rate Derivatives which will be supported by EurexOTC Clear are:

- Interest Rate Swap (IRS): Vanilla Fixed/Float with max maturity 16Y
- Single Currency Basis Swaps: Vanilla Float/Float with max maturity 16Y
- Forward Rate Agreement (FRA): Vanilla with max maturity 3Y
- Interest Rate Swap (IRS) and Single Currency Basis Swaps allowing Variable Notionals, Fixed Rate and Index Spreads

B. Indices and tenors overview

The new floating rate indices and tenors are:

- CZK-PRIBOR on 3M and 6M
- HUF-BUBOR on 3M and 6M

In connection with the introduction, please also consider the "EurexOTC Clear Product List" which has already been updated for the simulation and published, and will be updated for the production as of 8 May 2023 in the Member Section of Deutsche Börse Group under the following path:

Resources > Eurex Clearing > Documentation & Files > EurexOTC Clear > System documentation > **Overview**

C. Transaction fees

The fees for the new products can be retrieved from the Price List of Eurex Clearing AG that was not amended for the introduction of the new products.

D. Risk parameters

Margins for the new products are calculated in Prisma. For the risk parameters of the new products, please refer to the Eurex Clearing website www.eurex.com/ec-en/ under the link:

Services > Risk parameters

E. Amendments to the legal framework of Eurex Clearing

The following provisions will be amended as outlined in the Attachments 1 and 2:

- Chapter VIII Part 1 Number 1.7; Part 2 Numbers 2.1.3, 2.1.5, 2.1.7, 2.2.1,2.2.5 of the Clearing Conditions
- Chapter II Part 1 Number 1.7; Part 2 Numbers 2.1.3, 2.1.5, 2.1.7, 2.2.1,
 2.2.5 of the FCM Regulations

As of the effective date, the full versions of the amended Clearing Conditions and FCM Regulations will be available for download on the Eurex Clearing website under the following link:

Rules & Regs > Eurex Clearing Rules & Regulations

The amendments to the legal framework of Eurex Clearing AG published by this circular are deemed accepted by each affected contractual party of Eurex Clearing AG, unless the respective contractual party objects by written notice to Eurex Clearing AG prior to the relevant effective date(s) as stipulated in this circular. In case of an objection by the respective contractual party pursuant the preceding sentence, Eurex Clearing AG is entitled to terminate the respective contract (including a Clearing Agreement, if applicable). Instead of submitting an objection, the respective contractual party may submit in writing to Eurex Clearing AG comments to any amendments of the legal framework of Eurex Clearing AG within the first 10 Business Days after the publication of the amendments. Eurex Clearing AG shall assess whether these comments prevent the published amendments from becoming effective taking into account the interests of Eurex Clearing AG and all contractual parties.

Unless the context requires otherwise, terms used and not otherwise defined in this circular shall have the meaning ascribed to them in the Clearing Conditions or FCM Clearing Conditions of Eurex Clearing AG, as applicable.

Attachments:

- 1 Amended sections of the Clearing Conditions of Eurex Clearing AG
- 2 Amended sections of the FCM Regulations of Eurex Clearing AG

Further information

Recipients: All Clearing Members, all FCM Clearing Members, ISA Direct

Clearing Members, Disclosed Direct Clients of Eurex Clearing AG

and vendors

Target groups:	Front Office/Trading, Middle + Backoffice, IT/System Administration, Auditing/Security Coordination
Related circular:	Eurex Clearing Circular 007/22
Contact:	client.services@eurex.com or your dedicated Clearing Key Account Manager
Web:	www.eurex.com/ec-en/
Authorized by:	Dmitrij Senko

Further information



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Chapter VIII of the Clearing Conditions of Eurex Clearing AG

Clearing of OTC Interest Rate Derivative Transactions and OTC NDF Transactions

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AMENDMENTS ARE MARKED AS FOLLOWS:

INSERTIONS ARE UNDERLINED;
DELETIONS ARE CROSSED OUT

[...]

Part 1 General Provisions

[...]

[...]

1.7 Certain Definitions

[...]

(12) The "Currency/Business Day Matrix" shall be the following matrix:

Currency	Defined Term	Definition: The lawful currency of:	Financial Center(s)	Currency specific provision/ rounding of amounts
Swiss Franc	CHF	Switzerland	Zurich	
Czech Koruna	CZK	The Czech Republic	<u>Prague</u>	
[]				
Sterling	GBP	The United Kingdom	London	
Hungarian Forint	HUF	The Republic of Hungary		Rounding: To the nearest whole (with one half Hungarian Forint being rounded up).
[]				

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	[]	
[]		
Part 2	Clearing of OTC Interest Rate Derivative Trans	sactions
2.1	General Provisions	
[]		
2.1.3	Interest Rate Derivative Clearing License	
	[]	
2.1.3.1	Requirements for the Granting of an Interest Rate Deriv	vatives Clearing License
	[]	
	(d) if the Interest Rate Derivatives Clearing License of the ISA Direct Clearing Member covers OTC Interest Rate CHF, EUR, GBP, JPY, USD, <u>CZK</u> , DKK, <u>HUF</u> NOK, P account(s) in the relevant currency or currencies; and	e Derivative Transactions in
	[]	
[]		
2.1.5	Novation Criteria and Process Regarding OTC Interest Transactions	Rate Derivative
	[]	
2.1.5.1	Transaction Type Specific Novation Criteria and Terms Derivative Transactions	for OTC Interest Rate
	[]	
	(2) Currencies	
	The currency must be	
	(i) for IRS (excluding basis swaps) and FRA: EUR, I NOK or PLN;	JSD <u>, CZK,</u> DKK <u>, HUF,</u> SEK,
	(ii) basis swaps: EUR, USD, CZK, HUF, DKK, NOK	or PLN;
	[]	
	(3) Payment types	

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Fees or other payments are defined at contract conclusion. The fees must be in trade currency.

(a) For IRS, OIS and FRA, in case of a termination, fees are settled one day after the termination date for CHF, EUR, GBP, USD and PLN and two days after the termination date for JPY, <u>CZK</u>, DKK, <u>HUF</u>, NOK and SEK. In case of maturity, fees are settled on the maturity date.

[...]

(4) Maximum remaining term / Termination Date

[...]

- (a) in case of IRS (excluding basis swaps),
 - (i) for Original OTC Transactions in EUR, no more than 61 years (22,335 calendar days);
 - (ii) for Original OTC Transactions in USD, no more than 51 years (18,675 calendar days);
 - (iii) for Original OTC Transactions in DKK, NOK or SEK, no more than 31 years (11,375 calendar days); and
 - (iv) for Original OTC Transactions in PLN, <u>CZK and HUF</u>, no more than 16 years (5,871 calendar days).
- (b) in case of basis swaps,
 - (i) for Original OTC Transactions in PLN, CZK and HUF, no more than 16 years (5,871 calendar days).
- (bc) in case of OIS,

[...]

(ed) in case of FRA, for Original OTC Transactions in EUR, USD, CZK, DKK, HUF, NOK, PLN or SEK, no more than 3 years (1,225 calendar days), provided however, in case of FRA referencing USD-LIBOR as the relevant floating rate for any eligible tenor, the termination date must not be on or after 01.04.2023; and

[...]

(5) Minimum remaining term

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In case of IRS, OIS and ZCIS, the minimum period between the date of novation and the Termination Date must be at least one Business Day for CHF, EUR, GBP, USD and PLN and two Business Days for JPY, <u>CZK</u>, DKK, <u>HUF</u>, NOK or SEK.

In case of FRA which are settled in advance or in arrears, the minimum period between the date of novation and the payment date must be at least one Business Day for EUR, USD and PLN and two Business Days for <u>CZK, DKK, HUF, NOK</u> and SEK.

[...]

(7) Shortened or extended calculation period (stub period)

[...]

- (b) The minimum period length of short Interest Rate Stub Periods is one day. The maximum period length for long Interest Rate Stub Periods for both, fixed rate payments under IRS in any eligible currency, and OIS is not restricted. The maximum period length for long Interest Rate Stub Periods is one year and one month for floating rate payments under IRS in EUR. For floating rate payments under IRS in USD, CZK, DKK, HUF, NOK and PLN, the maximum length for long Interest Rate Stub Periods is seven months and for floating rate payments under IRS in SEK the maximum length for long Interest Rate Stub Periods is six months.
- (c) For IRS floating payments, the floating rates for Interest Rate Stub Periods must be specified in the Trade Record submitted via the ATS as follows:

[....]

- (bb) if a floating rate index tenor is specified, which is used for the fixing in respect of the Interest Rate Stub Period, the respective tenors. The following tenors (W = week(s), M = month(s), Y = year) are eligible:
 - (i) in case the currency is EUR: 1W, 1M, 3M, 6M, 1Y;
 - (ii) in case the currency is DKK: 1W, 1M, 3M, 6M;
 - (iv) in case the currency is PLN: 1W, 2W, 1M, 3M, 6M;
 - (v) in case the currency is SEK: 1W, 1M, 2M, 3M;
 - (vi) in case the currency is CZK or HUF: 1W, 2W, 1M, 2M, 3M, 6M.

[...]

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(8a) Floating Rate Options

For IRS, OIS, FRA, the following Floating Rate Options are eligible (where applicable, the relevant Designated Maturity needs to be specified) subject to further provisions:

Floating Rate Options (major currencies)

<u>CHF-SARON-OIS Compound (also referred to as CHF-SARON-OIS-COMPOUND);</u>

<u>EUR-EURIBOR</u> (also referred to as <u>EUR-EURIBOR-Reuters</u>);

EUR-EuroSTR-OIS Compound (also referred to as EUR-EuroSTR-COMPOUND);

GBP-SONIA-OIS Compound (also referred to as GBP-SONIA-COMPOUND);

<u>JPY-TONA-OIS Compound (also referred to as JPY-TONA-OIS-COMPOUND);</u>

<u>USD-Federal Funds-OIS Compound (also referred to as USD-Federal Funds-H.15-OIS-COMPOUND);</u>

USD-LIBOR (also referred to as USD-LIBOR-BBA);

USD-SOFR-OIS Compound (also referred to as USD-SOFR-COMPOUND);

Floating Rate Options (minor currencies)

CZK-PRIBOR (also referred to as CZK-PRIBOR-PRBO);

<u>DKK-CIBOR (also referred to as DKK-CIBOR-DKNA13);</u> DKK-CIBOR2 (also referred to as DKK-CIBOR2-DKNA13)

HUF-BUBOR (also referred to as HUF-BUBOR-Reuters);*

NOK-NIBOR (also referred to as NOK-NIBOR-OIBOR; NOK-NIBOR-NIBR);

PLN-WIBOR (also referred to as PLN-WIBOR-WIBO);

SEK-STIBOR (also referred to as SEK-STIBOR-SIDE)

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- (a) EUR-EURIBOR (also referred to as EUR-EURIBOR-Reuters);
- (b) USD-LIBOR (also referred to as USD-LIBOR-BBA);
- (c) USD-Federal Funds-OIS Compound (also referred to as USD-Federal Funds-H.15-OIS-COMPOUND);
- (d) JPY-TONA-OIS Compound (also referred to as JPY-TONA-OIS-COMPOUND);
- (e) GBP-SONIA-OIS Compound (also referred to as GBP-SONIA-COMPOUND);
- (f) NOK-NIBOR (also referred to as NOK-NIBOR-OIBOR; NOK-NIBOR-NIBR);
- (g) SEK-STIBOR (also referred to as SEK-STIBOR-SIDE);
- (h) DKK-CIBOR (also referred to as DKK-CIBOR-DKNA13);

DKK-CIBOR2 (also referred to as DKK-CIBOR2-DKNA13);

- (i) PLN-WIBOR (also referred to as PLN-WIBOR-WIBO);
- (j) CHF-SARON-OIS Compound (also referred to as CHF-SARON-OIS-COMPOUND);
- (k) EUR-EuroSTR-OIS Compound (also referred to as EUR-EuroSTR-COMPOUND):
- (I) USD-SOFR-OIS Compound (also referred to as USD-SOFR-COMPOUND).

For ZCIS, the following indices are eligible:

Indices FRCPIx (for ZCIS in trade currency EUR); HICPxT (for ZCIS in trade currency EUR); UK RPI (for ZCIS in trade currency GBP);

- (a) HICPxT (for ZCIS in trade currency EUR);
- (b) FRCPIx (for ZCIS in trade currency EUR);
- (c) UK RPI (for ZCIS in trade currency GBP).

[...]

(8d) Fixing Day offset

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A Fixing Day offset may be specified in the limits of the following parameters:

- (a) for OIS: 0 bBusiness dDays
- (b) for IRS: -10 to 0 Business Days

For basis swaps: for the floating leg referencing

- (A): EUR-EURIBOR, USD-LIBOR, CZK-PRIBOR, HUF-BUBOR: -10 to 0 Business Days; and
- (B): EUR-EuroSTR-OIS Compound, GBP-SONIA-OIS Compound, JPY-TONA-OIS Compound, USD-SOFR-OIS Compound, USD-Federal Funds-OIS Compound: 0 Business Days.
- (c) for FRAs:
 - (i) where settlement in advance is specified, for the floating leg referencing
 - (A) <u>CZK-PRIBOR</u>, DKK-CIBOR, DKK-CIBOR2, <u>HUF-BUBOR</u>, SEK-STIBOR, NOK-NIBOR: -10 to -2 Business Days; and
 - (B) EUR-EURIBOR, USD-LIBOR, PLN-WIBOR: -10 to -1 Business Days;

[...]

[...]

(9a) Delayed Payments

[...]

- (a) for IRS:
 - between 0 and 2 Business Days for legs referencing USD-LIBOR, EUR-EURIBOR, <u>CZK-PRIBOR</u>, <u>DKK-CIBOR</u>, <u>HUF-BUBOR</u>, <u>SEK-STIBOR</u>, NOK-NIBOR, PLN-WIBOR,
 - (ii) between 1 and 2 Business Days for legs referencing USD-SOFR-OIS Compound, USD-Federal Funds-OIS Compound, EUR-EuroSTR-OIS Compound, GBP-SONIA-OIS Compound, JPY-TONA-OIS Compound,

[...]

(11) Calculation periods

The calculation period(s) for payment(s) of floating amounts <u>and/or fixed amounts</u> (other than stub periods covered by Paragraph (7)) under the relevant OTC Interest Rate Derivative Transaction in EUR (other than OIS) must be: <u>one month</u>, three months, six months or twelve months and the calculation period(s) for payment(s) of floating amounts under an OTC Interest Rate Derivative Transaction in USD (other than OIS) must be one month, three months or six months (in all cases except for Interest Rate Stub Periods, zero coupon payments and payments on a compounding

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basis). For OTC Interest Rate Derivative Transaction (other than OIS) in SEK calculation period(s) for payment(s) of floating amounts must be three months and for DKK, NOK or PLN three months and six months. Where the relevant OTC Interest Rate Derivative Transaction is an OIS, floating amounts must be payable monthly, quarterly, semi-annually, annually or at maturity (except for Interest Rate Stub Periods). For ZCIS, only zero coupon payments are supported.

- (a) for OIS: monthly, quarterly, semi-annually, annually, zero coupon;
- (b) for IRS: if the relevant rate is
 - i. EUR-EURIBOR:
 - For the floating leg and fixed leg: monthly, quarterly, semi-annually, annually, zero coupon;
 - ii. CZK-PRIBOR, DKK-CIBOR, DKK-CIBOR2, HUF-BUBOR, NOK-NIBORPLN-WIBOR or SEK-STIBOR:
 - a. For the floating leg: quarterly, semi-annually, annually, zero coupon;
 - b. For the fixed leg: monthly, quarterly, semi-annually, annually, zero coupon;
- (c) for basis swaps: if the relevant floating rate is
 - i. EUR-EURIBOR, EUR-EuroSTR-OIS Compound, USD-Federal Funds-OIS

 Compound or USD-SOFR OIS Compound:
 - for both legs: monthly, quarterly, semi-annually, annually, zero coupon;
 - ii. CZK-PRIBOR, DKK-CIBOR, DKK-CIBOR2, HUF-BUBOR, NOK-NIBOR or PLN-WIBOR:

for both legs: quarterly, semi-annually, annually, zero coupon;

- (d) for FRAs: n/a;
- (e) for ZCIS: zero coupon

If a payment date for a fixed or floating rate payment is adjusted in accordance with any applicable Business Day Convention, the number of days in the relevant calculation period may either be adjusted to the new payment date or remain unadjusted, which is to be specified in the Trade Record submitted via the ATS.

Except for ZCIS and FRA, the start and end dates can be different for each leg of an OTC Interest Rate Derivative Transaction.

(12) Notional amount

The minimum notional amount must be (i) 0.01 for CHF, EUR, GBP, USD, CZK, DKK, NOK, SEK or PLN or (ii) 1.00 for JPY and HUF.

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[...]

(14) Business Days

(a) For purposes of defining the applicable Business Days, the following financial center(s) and/or terms may be specified:

Financial center(s) and/or terms	fpML code
[]	
Zurich	CHZU
Prague	CZPR
[]	
Athens	GRAT
Budapest	<u>HUBU</u>
[]	

[...]

(b) At least the specification of the following financial center(s) and/or terms is mandatory for the OTC Interest Rate Derivative Transaction, further financial center(s) and/or terms may be added optionally as set out in limb (a):

Referenced floating rate index	FpML code of the mandatory financial center(s) and/or terms				
	For Payment Dates	For Effective Date, Termination Date	For Fixing Dates		
[]					
USD-LIBOR -BBA	USNY	USNY	GBLO		
EUR-EURIBOR-Reuters	EUTA	EUTA	EUTA		
DKK-CIBOR-DKNA13, DKK-CIBOR2-DKNA13	DKCO	DKCO	DKCO		

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Referenced floating rate index	FpML code of the mandatory financial center(s) and/or terms				
	For Payment Dates	For Effective Date, Termination Date	For Fixing Dates		
SEK-STIBOR -SIDE	SEST	SEST	SEST		
NOK-NIBOR -OIBOR NOK-NIBOR-NIBR	NOOS	NOOS	NOOS		
PLN-WIBOR -WIBO	PLWA	PLWA	PLWA		
CZK PRIBOR	CZPR	CZPR	CZPR		
HUF-BUBOR	HUBU	HUBU	HUBU		
USD-SOFR-OIS CompoundCOMPOUND	USNY	USNY	USGS		
USD-Federal Funds- H.15-OIS- CompoundCOMPOUND	USNY	USNY	USNY		
EUR-EuroSTR-OIS CompoundCOMPOUND	EUTA	EUTA	EUTA		
GBP-SONIA-OIS CompoundCOMPOUND	GBLO	GBLO	GBLO		
JPY-TONA-OIS- CompoundCOMPOUND	JPTO	JPTO	JPTO		
[]					

[...]

2.1.7 Margin Requirements

[...]

(4) In addition to Variation Margin and ISA Direct Variation Margin, as applicable, and as part of the primary payment obligations of CTM Interest Rate Derivative Transactions, interest (the so-called price alignment interest ("PAI")) shall be

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payable on the cumulative Variation Margin or ISA Direct Variation Margin, respectively, at the applicable overnight interest rate.

[...]

- (b) The relevant indices to determine the PAI are:
 - (i) In case the currency is CHF then SARON (Swiss Average Rate Overnight);
 - (ii) In case the currency is EUR then €STR (Euro Short-Term Rate);
 - (iii) In case the currency is GBP then SONIA (Sterling Overnight Index Average rate);
 - (iv) In case the currency is JPY then TONA (Tokyo Overnight Average Rate)R;
 - (v) In case the currency is USD then SOFR (Secured Overnight Financing Rate);
 - (vi) In case the currency is CZK then CZEONIA (Czech Overnight Index Average);
 - (vii) In case the currency is DKK then T/N (the rate for tomorrow next deposits in Danish Krone as published by the Danish National Bank Danish Financial Benchmark Facility);
 - (viii) In case the currency is HUF then HUFONIA (Hungarian Forint Overnight Index Average);
 - (viiix) In case the currency is NOK then NOWA (Norwegian Overnight Weighted Average);
 - (viiix) In case the currency is PLN then POLONIA (Polish Zloty interest rate on overnight unsecured interbank deposits Polish Overnight Index Average):-
 - (xiix) In case the currency is SEK then STIBOR T/N (the day-to-day fixing (known as the Tomorrow/Next (or T/N fixing)) of the rate for deposits in Swedish Krona known as the Stockholm Interbank Offered Rate).;

[....]

[...]

2.2 Product-related terms for OTC Interest Rate Derivative Transactions

[...]

2.2.1 Payment obligations

[...]

(3) Payments under the relevant Original OTC Interest Rate Derivative Transaction will not be owed under the relevant OTC Interest Rate Derivative Transaction and are

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not subject to these Clearing Conditions in case these payments (i) are in CHF, EUR, GBP, USD or PLN and were due on or before the day of novation or (ii) are in JPY, <u>CZK</u>, DKK, <u>HUF</u>, NOK or SEK and were due on or before the day of novation or will become due on the next Business Day following the day of novation.

[...]

- (5) The following additional primary payment obligations apply under STM Interest Rate Derivative Transactions:
 - (a) [...]

"IRS STM Amount" means, an amount which shall equal the profit or loss amount determined with respect to an outstanding STM Interest Rate Derivative Transaction on the relevant Business Day on the basis of the daily evaluation price (pursuant to Number 2.1.6) as follows: For STM Interest Rate Derivative Transactions concluded on the relevant Business Day, the relevant profit or loss amount shall be the difference between zero and the daily evaluation price for such Business Day. For each outstanding STM Interest Rate Derivative Transaction concluded (whether as STM Interest Rate Derivative Transaction or CTM Interest Rate Derivative Transaction) prior to the relevant Business Day, the relevant profit or loss amount shall be the difference between the daily evaluation prices of the STM Interest Rate Derivative Transaction on the relevant Business Day and the previous Business Day. On the Last IRS STM Amount Payment Date, the relevant profit or loss amount shall be the difference between the daily evaluation price of the STM Interest Rate Derivative Transaction of the previous Business Day and zero. Additionally, the IRS STM Amount includes two correction terms for considering the time delay between its calculation and settlement. For this purpose, the coupon payments and transaction fees on the current Business Day are added and the coupon payments and transaction fees on the next Business Day (second next Business Day for CZK, DKK, HUF, NOK, SEK and JPY) of the respective currency are subtracted.

(b) [...]

(aa) [...]

The equation above is also applied with respect to GBP FRAs with settlement in advance, where the IRS STM Amount and the IRS PAA are instructed intraday before the SONIA overnight rate is available.

For T+2 currencies (JPY, <u>CZK</u>, DKK, <u>HUF</u>, NOK and SEK) the IRS STM Amount is settled on T+2 (in contrast to CHF, EUR, GBP, USD and PLN where the IRS STM Amount is settled on T+1). The value of IRS PAA instructed on T settles on T+2 and reflects the interest payment from T+1 to T+2. It is calculated as:

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[...]

2.2.5 Rates for calculating the Floating Amount

[...]

Floating Rate Option: label specified in the OTC Trade Novation Report	Category / style	Underlying index and index administrato r	Designate d Maturity	Fixing Time (unless specified otherwis e in the OTC Trade Novation Report)	Fixing Day (unless specified otherwis e in the OTC Trade Novation Report)	Floating Rate Day Count Fraction	Rounding
CHF- SARON-OIS Compound (or CHF- SARON- OIS- COMPOUN D)	Category: Calculated Rate Style: Compounde d Floating Rate Option Compoundin g Method: OIS Compoundin g	Index: Swiss Average Rate Overnight ("SARON") Index Administrator : SIX Swiss Exchange AG	Not applicable	18:00, Zurich time	The day "i"	Actual/36 0	To the nearest one tenthousandt h of a percentag e point (0.0001 %)
CZK- PRIBOR (or CZK- PRIBOR- PRBO)	Category: Screen Rate Style: Term Rate	Index: The Prague Interbank Offered Rate (known as PRIBOR) Index Administrator : Czech Financial Benchmark Facility s.r.o.	Applicable	11:00, Prague time	2 Prague Business Days precedin g the Reset Date	As specified in the OTC Trade Novation Report	
[]							
GBP-SONIA- OIS Compound (or GBP- SONIA- COMPOUN D)	Category: Calculated Rate Style: Compounde d Floating Rate Option	Index: Sterlin Overnight Index Average rate ("SONIA") Index Administrator	Not applicable	09:00, London time	1 London Business Day following the day "i"	Actual/36 5 (Fixed)	To the nearest one ten-thousandt h of a percentag e point

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Floating Rate Option: label specified in the OTC Trade Novation Report	Category / style	Underlying index and index administrato r	Designate d Maturity	Fixing Time (unless specified otherwis e in the OTC Trade Novation Report)	Fixing Day (unless specified otherwis e in the OTC Trade Novation Report)	Floating Rate Day Count Fraction	Rounding
	Compoundin g Method: OIS Compoundin g	: Bank of England					(0.0001 %
HUF- BUBOR (or HUF- BUBOR- Reuters)	Category: Screen Rate Style: Term Rate	Index: The Budapest Interbank Offered Rate (known as BUBOR) Index Administrator : Central Bank of Hungary	<u>Applicable</u>	11:00, Budapest time	Budapest Business Days precedin g the Reset Date	As specified in the OTC Trade Novation Report	Rounding: To the nearest whole (with one half Hungarian Forint being rounded up).
[]							

[...]

Chapter II: Special Provisions for Clearing of Interest Rate Derivative Transactions
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AMENDMENTS ARE MARKED AS FOLLOWS:

INSERTIONS ARE UNDERLINED;

DELETIONS ARE CROSSED OUT

Part 1 General Provisions

[...]

1.7 Certain Definitions

[...]

(9) The "Currency/Business Day Matrix" shall be the following matrix:

Currency	Defined Term	Definition: The lawful currency of:	Financial Center(s)	Currency specific provision/ rounding of amounts
Swiss Franc	CHF	Switzerland	Zurich	
Czech Koruna	<u>CZK</u>	The Czech Republic	<u>Prague</u>	
[]				
Sterling	GBP	The United Kingdom	London	
Hungarian Forint	HUF	The Republic of Hungary		Rounding: To the nearest whole (with one half Hungarian Forint being rounded up).
[]				

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[...]

Part 2 Clearing of Interest Rate Derivative Transactions

2.1 General Provisions

[...]

2.1.3 Interest Rate Derivates Clearing License

[...]

2.1.3.1 Requirements for the Granting of an Interest Rate Derivatives Clearing License

The general requirements for obtaining an FCM Clearing License set out in Chapter I Number 2 shall apply subject to the provisions set out in this Chapter II. In addition, the applicant applying for an Interest Rate Derivatives Clearing License shall meet the following requirements:

[...]

(4) if the Interest Rate Derivatives Clearing License of the relevant FCM Clearing Member covers Interest Rate Derivative Transactions CHF, EUR, GBP, JPY, USD, CZK, DKK, HUF, NOK, PLN and/or SEK, bank cash account(s) in the relevant currency or currencies; and

[...]

[...]

2.1.5 Novation Criteria and Process Regarding Interest Rate Derivative Transactions

[...]

2.1.5.1 Specific Novation Criteria and Terms for Swap Transactions

[...]

(2) Currencies

The currency must be

- (i) for IRS (excluding basis swaps) and FRA: EUR, USD, CZK, DKK, HUF, SEK, NOK or PLN;
- (ii) for basis swaps: EUR, USD, DKK, NOK, or PLN; CZK or HUF and
- (iii) for OIS: CHF, EUR, GBP, JPY or USD;

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(3) Payment types

[...]

Fees or other payments are defined at contract conclusion. The fees must be in trade currency.

(a) For IRS, OIS and FRA, in case of a termination, fees are settled one day after the termination date for CHF, EUR, GBP, USD and PLN and two days after the termination date for JPY, <u>CZK</u>, DKK, <u>HUF</u>, NOK and SEK. In case of maturity, fees are settled on the maturity date.

[...]

(4) Maximum remaining term / Termination Date

The remaining term of the Interest Rate Derivative Transaction from the date of novation to the termination date. Termination Date must be

(a) in case of IRS (excluding basis swaps)

[...]

- (iv) for Original Swap Transactions in PLN, no more than 16 years (5,871 calendar days),
- (v) for Original Swap Transactions in CZK or HUF, no more than 16 years (5,871 calendar days),
- (b) in case of basis swaps,
 - (i) for Original OTC Transactions in CZK and HUF, no more than 16 years (5,871 calendar days).
- (cb) in case of OIS,

[...]

- (ed) in case of FRA, for Original Swap Transactions in EUR, USD, <u>CZK</u>, DKK, <u>HUF</u>, NOK, PLN or SEK, no more than 3 years (1,225 calendar days), provided, however, in case of FRA referencing USD-LIBOR as the relevant floating rate for any eligible tenor, the termination date must not be on or after 01.04.2023
- (de) in case of ZCIS,

[...]

(5) Minimum remaining term

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In case of IRS, OIS and ZCIS, the minimum period between the date of novation and the Termination Date must be at least one Business Day for CHF, EUR, GBP, USD and PLN and two Business Days for JPY, CZK, DKK, HUF, NOK or SEK.

In case of FRA which are settled in advance or in arrears, the minimum period between the date of novation and the payment date must be at least one Business Day for EUR, USD and PLN and two Business Days for <u>CZK, DKK, HUF, NOK</u> and SEK.

[...]

(7) Shortened or extended calculation period (stub period)

[...]

- (b) The minimum period length of short Interest Rate Stub Periods is one day. The maximum period length for long Interest Rate Stub Periods for both, fixed rate payments under IRS in any eligible currency, and OIS is not restricted. The maximum period length for long Interest Rate Stub Periods is one year and one month for floating rate payments under IRS in EUR. For floating rate payments under IRS in USD, CZK, DKK, HUF, NOK and PLN, the maximum length for long Interest Rate Stub Periods is seven months and for floating rate payments under IRS in SEK the maximum length for long Interest Rate Stub Periods is six months.
- (c) For IRS floating payments, the floating rates for Interest Rate Stub Periods must be specified in the Trade Record submitted via the ATS as follows:

[...]

(bb) [...]

(vi) in case the currency is USD and the termination date is before 01.10.2021: 1W, 1M, 2M, 3M, 6M; in case the currency is USD and the termination date is on or after 01.10.2021: 1M, 3M, 6M.;

(vi) in case the currency is CZK or HUF: 1W, 2W, 1M, 2M, 3M, 6M.

[...]

[...]

[...]

(8a) Floating Rate Options

For IRS, OIS, FRA, the following Floating Rate Options are eligible (where applicable, the relevant Designated Maturity needs to be specified) subject to further provisions:

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Floating Rate Options (major currencies)

CHF-SARON-OIS Compound (also referred to as CHF-SARON-OIS-COMPOUND);

EUR-EURIBOR (also referred to as EUR-EURIBOR-Reuters);

EUR-EuroSTR-OIS Compound (also referred to as EUR-EuroSTR-COMPOUND);

GBP-SONIA-OIS Compound (also referred to as GBP-SONIA-COMPOUND);

JPY-TONA-OIS Compound (also referred to as JPY-TONA-OIS-COMPOUND);

<u>USD-Federal Funds-OIS Compound (also referred to as USD-Federal Funds-H.15-OIS-COMPOUND);</u>

USD-LIBOR (also referred to as USD-LIBOR-BBA);

USD-SOFR-OIS Compound (also referred to as USD-SOFR-COMPOUND);

Floating Rate Options (minor currencies)

CZK-PRIBOR (also referred to as CZK-PRIBOR-PRBO);

<u>DKK-CIBOR (also referred to as DKK-CIBOR-DKNA13);</u> DKK-CIBOR2 (also referred to as DKK-CIBOR2-DKNA13)

HUF-BUBOR (also referred to as HUF-BUBOR-Reuters);*

NOK-NIBOR (also referred to as NOK-NIBOR-OIBOR; NOK-NIBOR-NIBR);

PLN-WIBOR (also referred to as PLN-WIBOR-WIBO);

SEK-STIBOR (also referred to as SEK-STIBOR-SIDE);

- (a) EUR-EURIBOR (also referred to as EUR-EURIBOR-Reuters);
- (b) USD-LIBOR (also referred to as USD-LIBOR-BBA);
- (c) USD-Federal Funds-OIS Compound (also referred to as USD-Federal Funds-H.15-OIS-COMPOUND);
- (d) JPY-TONA-OIS Compound (also referred to as JPY-TONA-OIS-COMPOUND);
- (e) GBP-SONIA-OIS Compound (also referred to as GBP-SONIA-COMPOUND);

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- (f) NOK-NIBOR (also referred to as NOK-NIBOR-OIBOR; NOK-NIBOR-NIBR);
- (g) SEK-STIBOR (also referred to as SEK-STIBOR-SIDE);
- (h) DKK-CIBOR (also referred to as DKK-CIBOR-DKNA13); DKK-CIBOR2 (also referred to as DKK-CIBOR2-DKNA13);
- (i) PLN-WIBOR (also referred to as PLN-WIBOR-WIBO);
- (j) CHF-SARON-OIS Compound (also referred to as CHF-SARON-OIS-COMPOUND);
- (k) EUR-EuroSTR-OIS Compound (also referred to as EUR-EuroSTR-COMPOUND);
- (I) USD-SOFR-OIS Compound (also referred to as USD-SOFR-COMPOUND);

For ZCIS, the following indices are eligible:

<u>Indices</u>
FRCPIx (for ZCIS in trade currency EUR);
HICPxT (for ZCIS in trade currency EUR);
UK RPI (for ZCIS in trade currency GBP)

- _(a) HICPxT (for ZCIS in trade currency EUR);
- (b) FRCPIx (for ZCIS in trade currency EUR);
- (c) UK RPI (for ZCIS in trade currency GBP).

[...]

(8d) Fixing Day offset

A Fixing Day offset may be specified in the limits of the following parameters:

- (a) for OIS: 0 Bbusiness Ddays
- (b) for IRS: -10 to 0 Business Days

For basis swaps: for the floating leg referencing

(A): EUR-EURIBOR, USD-LIBOR, CZK-PRIBOR, HUF-BUBOR: -10 to 0 Business Days; and

[...]

(c) for FRAs:

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- (i) where settlement in advance is specified, for the floating leg referencing
 - (A) CZK-PRIBOR, DKK-CIBOR, DKK-CIBOR2, <u>HUF-BUBOR</u>, SEK-STIBOR, NOK-NIBOR: -10 to -2 Business Days; and
 - (B)_EUR-EURIBOR, USD-LIBOR, PLN-WIBOR: -10 to -1 Business Days.;

[...]

(9a) Delayed Payments

[...]

- (a) for IRS:
 - (i) between 0 and 2 Business Days for legs referencing USD-LIBOR, EUR-EURIBOR, <u>CZK-PRIBOR</u>, <u>DKK-CIBOR</u>, <u>HUF-BUBOR</u>, <u>SEK-STIBOR</u>, NOK-NIBOR, PLN-WIBOR,

[...]

[...]

[...]

(11) Calculation periods

The calculation period(s) for payment(s) of floating amounts <u>and/or fixed amounts</u> (other than stub periods covered by Paragraph (7)) under the relevant Interest Rate Derivative Transaction must be:

- (a) for OIS: monthly, quarterly, semi-annually, annually, zero coupon;
- (b) for IRS: if the relevant rate is
 - i. EUR-EURIBOR:

For the floating leg and fixed leg: monthly, quarterly, semi-annually, annually, zero coupon;

- ii. CZK-PRIBOR, DKK-CIBOR, DKK-CIBOR2, HUF-BUBOR, NOK-NIBOR or SEK-STIBOR:
 - a. For the floating leg: quarterly, semi-annually, annually, zero coupon;
 - b. For the fixed leg: monthly, quarterly, semi-annually, annually, zero coupon
- (c) for basis swaps: if the relevant floating rate is

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i. EUR-EURIBOR, EUR-EuroSTR-OIS Compound, USD-Federal Funds-OIS Compound or USD-SOFR OIS Compound:

for both legs: monthly, quarterly, semi-annually, annually, zero coupon;

ii. CZK-PRIBOR, DKK-CIBOR, DKK-CIBOR2, HUF-BUBOR or, NOK-NIBOR:

for both legs: quarterly, semi-annually, annually, zero coupon;

(d) for FRAs: n/a.

one month, three months, six months or twelve months and the calculation period(s) for payment(s) of floating amounts under an Interest Rate Derivative Transaction in USD (other than OIS) must be one month, three months or six months (in all cases except for Interest Rate Stub Periods, zero coupon payments and payments on a compounding basis). For OTC Interest Rate Derivative Transaction (other than OIS) in SEK calculation period(s) for payment(s) of floating amounts must be three months and for DKK, NOK or PLN three months and six months.

If a payment date for a fixed or floating rate payment is adjusted in accordance with any applicable Business Day Convention, the number of days in the relevant calculation period may either be adjusted to the new payment date or remain unadjusted, which is to be specified in the Trade Record submitted via the ATS.

Except for ZCIS and FRA, the start and end dates can be different for each leg of an Interest Rate Derivative Transaction.

(12) Notional amount

The minimum notional amount must be (i) 0.01 for CHF, EUR, GBP, USD, CZK, DKK, NOK, SEK or PLN or (ii) 1.00 for JPY and HUF.

[...]

[...]

(14) Business Days

(a) For purposes of defining the applicable Business Days, the following financial center(s) and/or terms may be specified:

Financial center(s) and/or terms	fpML code
[]	
Zurich	CHZU
<u>Prague</u>	CZPR

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Financial center(s) and/or terms	fpML code
[]	
Athens	GRAT
Budapest	<u>HUBU</u>
[]	

The same financial center(s) and/or terms must be specified for the Effective Date, the Termination Date and Payment Dates. However, for Fixing Days, different financial center(s) and/or terms may be specified.

(b) At least the specification of the following financial center(s) and/or terms is mandatory for the Interest Rate Derivative Transaction, further financial center(s) and/or terms may be added optionally as set out in limb (a):

Referenced floating rate index	FpML code of the and/or terms	e mandatory finand	cial center(s)
	For Payment Date	For Effective Date, Termination Date	For Fixing Days
USD-LIBOR-BBA	USNY	USNY	GBLO
EUR-EURIBOR-Reuters	EUTA	EUTA	EUTA
DKK-CIBOR-DKNA13, DKK-CIBOR2-DKNA13	DKCO	DKCO	DKCO
SEK-STIBOR-SIDE	SEST	SEST	SEST
NOK-NIBOR -OIBOR NOK-NIBOR-NIBR	NOOS	NOOS	NOOS
PLN-WIBOR -WIBO	PLWA	PLWA	PLWA
CZK-PRIBOR	CZPR	CZPR	CZPR
HUF-BUBOR	<u>HUBU</u>	<u>HUBU</u>	<u>HUBU</u>

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Referenced floating rate index	FpML code of the and/or terms	e mandatory financ	cial center(s)
	For Payment Date	For Effective Date, Termination Date	For Fixing Days
USD-SOFR- COMPOUNDOIS Compound	USNY	USNY	USGS
USD-Federal Funds- H.15-OIS Compound- COMPOUND	USNY	USNY	USNY
EUR-EuroSTR- <u>OIS</u> CompoundCOMPOUND	EUTA	EUTA	EUTA
GBP-SONIA- <u>OIS</u> CompoundCOMPOUND	GBLO	GBLO	GBLO
JPY-TONA-OIS Compound- COMPOUND	JPTO	JPTO	JPTO
[]			

[...]

2.2 Product-related terms for Interest Rate Derivative Transactions

[...]

2.2.1 Payment Obligations

[...]

(3) Payments under the relevant Original Swap Transaction will not be owed under the relevant Swap Transaction and are not subject to these FCM Clearing Conditions in case these payments (i) are in CHF, EUR, GBP, USD or PLN and were due on or before the day of novation or (ii) are in JPY, CZK, DKK, HUF, NOK or SEK and will become due on the next Business Day following the day of novation.

[...]

(5) The following additional primary payment obligations apply:

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(a) [...]

"Variation Settlement Amount" means an amount which shall equal the profit or loss amount determined with respect to an outstanding Interest Rate Derivative Transaction on the relevant Business Day on the basis of the daily evaluation price (pursuant to Number 2.1.6) as follows: For Interest Rate Derivative Transactions entered into on the relevant Business Day, the relevant profit or loss amount shall be the difference between zero and the daily evaluation price for such Business Day. For each outstanding Interest Rate Derivative Transaction entered into prior to the relevant Business Day, the relevant profit or loss amount shall be the difference between the daily evaluation prices of the Interest Rate Derivative Transaction on the relevant Business Day and the previous Business Day. On the Last Variation Settlement Amount Payment Date, the relevant profit or loss amount shall be the difference between the daily evaluation price of the Interest Rate Derivative Transaction of the previous Business Day and zero. Additionally, the Variation Settlement Amount includes two correction terms for considering the time delay between its calculation and settlement. For this purpose, the coupon payments and transaction fees on the current Business Day are added and the coupon payments and transaction fees on the next Business Day (second next Business Day for CZK, DKK, HUF, NOK, SEK and JPY) of the respective currency are subtracted.

(b) A price alignment amount ("**Price Alignment Amount**" or "**PAA**") shall be payable by the FCM Clearing Member or Eurex Clearing AG, as the case may be, together with the Variation Settlement Amount.

(aa) [...]

For T+2 currencies (JPY, <u>CZK</u>, DKK, <u>HUF</u>; NOK and SEK) the Variation Settlement Amount is settled on T+2 (in contrast to CHF, EUR, GBP, USD and PLN where the Variation Settlement Amount is settled on T+1). The value of the Variation Settlement Amount instructed on T settles on T+2 and reflects the interest payment from T+1 to T+2. It is calculated as:

$$PAA\ (T) = -\ MtM_exCF(T-1)^*\ ONR(T,T+1)\ ^*\ YF(T+1,T+2),$$

with

$$MtM_exCF(T-1) = MtM(T-1)-DCF(T-1,T)-CF(T-1,T+1).$$

- (bb) The relevant indices to determine the PAA are
 - (i) In case the currency is CHF then SARON (Swiss Average Rate Overnight);
 - (ii) In case the currency is EUR then €STR (Euro Short-Term Rate);
 - (iii) In case the currency is GBP then SONIA (Sterling Overnight Index Average rate);

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- (iv) In case the currency is JPY then TONAR (Tokyo Overnight Average Rate);
- (v) In case the currency is USD then SOFR (Secured Overnight Financing Rate);
- (vi) In case the currency is CZK then CZEONIA (Czech Overnight Index Average);
- (vii) In case the currency is DKK then T/N (the rate for tomorrow next deposits in Danish Krone as published by the Danish Financial Benchmark Facilitypublished by Danish National Bank);
- (viii) In case the currency is HUF then HUFONIA (Hungarian Forint Overnight Index Average);
- (<u>ixviii</u>) In case the currency is NOK then NOWA (Norwegian Overnight Weighted Average);
- (viiix) In case the currency is PLN then POLONIA (<u>Polish Zloty</u> interest rate on overnight unsecured interbank deposits <u>Polish Overnight Index Average</u>);
- (ix) In case the currency is SEK then STIBOR T/N (the day-to-day fixing (known as the Tomorrow/Next (or T/N fixing)) of the rate for deposits in Swedish Krona known as the Stockholm Interbank Offered Rate).

[...]

[...]

2.2.5 Rates for calculating the Floating Amount

(1) Subject to Number 1.8, when calculating the Floating Amounts, the applicable Relevant Rate will be determined by Eurex Clearing AG on the basis of the Floating Rate Option label (and Designated Maturity, where applicable) as specified in the Swap Trade Novation Report in accordance with the following matrix (the "Floating Rate Matrix"):

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Rounding	To the nearest one tenthousandth of a percentage point (0.0001 %)		To the nearest one tenthousandth of a percentage point (0.0001 %)
Floating Rate Day Count Fraction	Actual/360	As specified in the Swap Trade Novation Report	Actual/365 (Fixed)
Fixing Day (unless specified otherwise in the Swap Trade Novation Report)	The day "!"	2 Prague Business Days preceding the Reset Date	1 London Business Day following the day "¡"
Fixing Time (unless specified otherwise in the Swap Trade Novation Report)	18:00, Zurich time	11:00, Prague time	09:00, London time
Designated Maturity	Not applicable	Applicable	Not applicable
Underlying index and index administrator	Index: Swiss Average Rate Overnight ("SARON") Index Administrator: SIX Swiss Exchange AG	Index: The Prague Interbank Offered Rate (known as PRIBOR) Index Administrator: Czech Financial Benchmark Facility s.r.o.	Index: Sterlin Overnight Index Average rate ("SONIA") Index Administrator: Bank of England
Category / style	Category: Calculated Rate Style: Compounded Floating Rate Option Compounding Method: OIS Compounding	Category: Screen Rate Style: Term Rate	Category: Calculated Rate Style: Compounded Floating Rate Option
Floating Rate Option: label specified in the Swap Trade Novation Report	CHF-SARON- OIS Compound (or CHF- SARON-OIS- COMPOUND)	CZK-PRIBOR (or CZK- PRIBOR-PRBO) []	GBP-SONIA-OIS Compound (or GBP-SONIA- COMPOUND)

Floating Rate Option: label specified in the Swap Trade Novation Report	Category / style	Underlying index and index administrator	Designated Maturity	Fixing Time (unless specified otherwise in the Swap Trade Novation Report)	Fixing Day (unless specified otherwise in the Swap Trade Novation Report)	Floating Rate Day Count Fraction	Rounding
	Compounding Method: OIS Compounding						
HUF-BUBOR (or HUF-BUBOR- Reuters)	Category: Screen Rate Style: Term Rate	Index: The Budapest Interbank Offered Rate (known as BUBOR) Index Administrator: Central Bank of Hungary	<u>Applicable</u>	11:00, Budapest time	2 Budapest Business Days preceding the Reset Date	As specified in the Swap Trade Novation Report	Rounding: To the nearest whole (with one half Hungarian Forint being rounded up).
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