The IBOR Reform at ECAG

RFR transition in 2021 and beyond

June 2021
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Key Information
The IBOR-transition process will soon be finished, as we are nearing the end of the timeline and LIBOR is to be discontinued after December 2021.
## Global Reform Process – the alternative Risk-Free Rates (RFRs)

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<th>Alternative Risk-Free Rate</th>
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| Euro Short Term Rate (€STR) | 2 October 2019   | European Central Bank | Unsecured Overnight | Based on actual unsecured transactions in Euro in the inter-bank lending market | - Establish liquid €STR OIS market before discontinuation of EONIA at the end of 2021  
- Conversion of legacy EONIA products to €STR in mid-October 2021 |
| Swiss Average Overnight Rate (SARON) | August 2009 | SIX Swiss Exchange | Secured Overnight | Based on transactions and trade quotes concluded against assets which are eligible for SNB GC and posted on the SIX Repo trading platform. | - Establishment of a liquid SARON cash and derivatives market  
- Increase the issued amount of SARON-linked cash products  
- Eurex plans to execute the conversion trades referencing CHF LIBOR over the weekend of December 3, 2021 |
| Reformed Sterling Overnight Index Average (SONIA) | 23 April 2018 (Reformed) | Bank of England | Unsecured Overnight | Weighted average rate of unsecured overnight sterling transactions brokered by Wholesale Markets Brokers Association members | - Agreement on the calculation of term rates for the 1, 3, 6, 12M tenors  
- Eurex plans to execute the conversion trades referencing GBP LIBOR over the weekend of December 17, 2021 |
| Secured Overnight Financing Rate (SOFR) | 3 April 2018 | Federal Reserve Bank of New York | Secured Overnight | Volume-weighted median of Tri-party repo, FICC GCF repo and FICC bilateral treasury repo | The CFTC’s IR Benchmark Reform committee recommended that on July 26, 2021 and thereafter, IDBs replace trading of LIBOR linear swaps with trading of SOFR linear swaps |
# Global Reform Process – the alternative Risk-Free Rates (RFRs)

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<td><strong>Tokyo Overnight Average Rate (TONA(R))</strong></td>
<td>July 1985</td>
<td>Bank of Japan</td>
<td>Unsecured Overnight</td>
<td>Fully transaction-based benchmark for the uncollateralized overnight call rate market, calculated as a volume-weighted average by the BOJ, using information provided by money market brokers (Tanshi)</td>
<td>- Japan is implementing a multi-rate approach with TONAR being promoted by the JPY RFR WG where appropriate, while recognizing that the JBATA-implemented TIBOR reforms should ensure that TIBOR can continue - Eurex plans to execute the conversion trades referencing JPY LIBOR over the weekend of December 3, 2021</td>
</tr>
<tr>
<td><strong>Hungarian Forint Overnight Index Average (HUFONIA)</strong></td>
<td>1 September 2010</td>
<td>Central Bank of Hungary (MNB)</td>
<td>Unsecured Overnight</td>
<td>Effective overnight rate computed as the weighted average of unsecured forint overnight transactions in the interbank market, derived from daily reports by credit institutions</td>
<td>Both the O/N HUFONIA and the term BUBOR are expected to continue without reform; MNB has suggested recent reforms led to acceptable HUF reference rates</td>
</tr>
<tr>
<td><strong>Czech Overnight Index Average (CZEONIA)</strong></td>
<td>1 January 2002</td>
<td>Czech National Bank</td>
<td>Unsecured Overnight</td>
<td>Weighted average of interest rates on all unsecured O/N deposits placed by banks and foreign bank branches on the interbank market, including deposits placed in the CNB’s deposit facility</td>
<td>Both the O/N CZEONIA and the term PRIBOR are expected to continue without reform; CZK WG stated the discontinuation of rates would have an adverse affect on financial stability of the Czech Republic, as there are very few appropriate substitutes available</td>
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<td>Reformed Norwegian Overnight Weighted Average (NOWA)</td>
<td>1 January 2020</td>
<td>Norges Bank</td>
<td>Unsecured Overnight</td>
<td>Calculated as a volume-weighted average of the interest rate on daily transactions reported on Norges Bank’s RPD (money market data reporting) form. Based on unsecured loans between banks that report data on a daily basis to Norges Bank made on banking day ( T ), with maturity ( T+1 )</td>
<td>The NOK WG on ARR set a target launch date for NOK OIS of Q4 2021</td>
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<td>TBD</td>
<td>2022 (?)</td>
<td>Swedish Riksbank</td>
<td>Unsecured Overnight</td>
<td>The Swedish working group for alternative reference rates (AGAR) recommended on June 11, 2019 that any new ARR should be based on unsecured transactions that the reporting bank makes with the Swedish National Debt Office, banks, and financial institutions</td>
<td>The Swedish Riksbank is planning to initiate a test period when it will publish a preliminary rate and then begin publishing the final reference rate in the near future</td>
</tr>
<tr>
<td>Denmark Short Term Rate (DESTR)</td>
<td>2022</td>
<td>Danmarks Nationalbank</td>
<td>Unsecured Overnight</td>
<td>Calculated as a 12.5% trimmed volume-weighted mean of overnight borrowing transactions deposited at the ten most active banks in the DKK money market</td>
<td>Test data for the reference rate (pre-DESTR) is available until end of April 2021; rate is scheduled to go into production in 2022</td>
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The benchmark reform – Update on the new rates

- €STR rate and its development in 2020
- Eurex Clearing action plan in regards to the RFRs
EUR OIS Volume Tracking (I)

- €STR OIS monthly volumes climbed to their highest levels since launch at Eurex with €204.6 billion in September 2021 (€143.4 billion in August)
- €STR OIS monthly volume at ECAG first crossed the €100 billion mark in July 2021
- Eurex had a market share of 21.8% in September 2021 for €STR OIS, and a 19.7% market share over the previous six months
- Overall EUR OIS at Eurex also reached a record high with €219 billion in September 2021, down from the record €161.4 billion in August 2021
- €STR OIS made up 93.4% of the EUR OIS at Eurex in September 2021 (88.8% in August 2021)
- €STR OIS market share sat at 16.6% for September 2021 (vs. EONIA OIS at all CCPs), down from an all time high of 23.8% in August.

- All EONIA legacy OIS will be converted to €STR on October 15, 2021.

- Eurex’ EUR OIS (EONIA + €STR) market % went down to 3.9% in September 2021 due to a doubling of EONIA volume at LCH prior to the close out of EONIA legacy OIS in October.
**IBOR reform at Eurex Clearing – 2021**

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**Conversion – EONIA to €STR**

- Single-Step conversion with cash compensation to €STR-flat
- EONIA OIS to be converted to €STR OIS on 15th October 2021 with a cash compensation
- The ECAG consultation on the treatment of the outstanding EONIA swaps ended on 30th November 2020; for more information, please see the [Eurex Clearing Circular](#) on our website

**ISDA Fallback**

- ISDA fallbacks* will apply without further action to all our OTClear trades (legacy and new) after 25th of January 2021 if fallback provisions are triggered.
- Fallback trades will differ from standard RFR OIS trades making them illiquid and not nettable with standard RFR OIS trade

**Non-USD Libor Road ahead**

- Eurex will actively convert the remaining clearing legacy IRS, FRA and Basis swap trades to standard and liquid RfR OIS trades before the fallback provisions are triggered:
  
  **A. CHF and JPY LIBOR** starting on 3 December 2021 and executed over that weekend and
  
  **B. GBP LIBOR** starting on 17 December 2021 and executed over that weekend

Simulation information regarding the timeline and the details of the rehearsal of the transition process will be available soon. For more information, please see the [Eurex Clearing Newsflash](#) on our website

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*Fallback provisions of Supplement 70 to the 2006 ISDA Definitions*
Eurex unique position to support the €STR transitions
Adoption of fallbacks provisions and alternatives after the cessation deadline will ensure the orderly processing of late conversion to RfR

- LIBOR cessation date 31 December 2021

- Fallback trades will differ from standard RfR OIS trades, making them illiquid and not nettable with standard RfR OIS trade

- Despite the extension on USD LIBOR cash products, parties should still continue with their transition efforts

**EUREX**

**ISDA Fallback**
- Does apply without further action to all our OTC Clear trades (legacy and new) after 25th of January 2021 if fallback provisions are triggered

**UK: the FS Bill**
- The UK Government introduced the Financial Services Bill in the UK Parliament to deal with “tough legacy” contracts
- It aims to reduce the risk of litigation arising from LIBOR contracts that have no realistic ability to be converted
- The FCA will have the power to designate a change to a synthetic LIBOR – forbidden for use in new contracts

**Auction process**
- Trades which cannot be compressed or converted will likely be suitable for auctions, as portfolios will be significantly smaller
CCPs are key to smooth the transition the new risk free rates – Eurex as a centralized market venue to trade and clear the Euro yield curve

The role of CCP in supporting the adaption of RfR

- Central clearing for most of these contracts is key to maintain financial market stability
- Mitigation of default risk - CCPs demand collateral deposits from the counterparties of a contract (e.g. Initial margins)
- The discounting switch is important to drive liquidity in RFR products, which is a first step for the actual switchover of contracts IBOR-referencing rates to new alternatives

Eurex switched PAI/PAA on all EUR-denominated interest rate swap products from EONIA to the Euro Short-Term Rate (€STR) on the 27th of July 2020, and to the SOFR rate on the 20th of October

The discounting switch affected the valuation and risk changes for cleared EUR or USD-denominated interest rate swap products.

Compensation mechanism were put in place to account for valuation gains or losses on EUR and USD-denominated contracts after the conversion to the new RFRs

CCPs ensured to remain cash flow neutral through the process, hence it is currently not possible to convert a LIBOR trade into a new benchmark index trade
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