

# LIBOR Transition in the Loan Markets

Frequently Asked Questions

February 2021

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### Glossary

April 2020 SWG Statement See paragraph 2.2.

**ARRC** 

Alternative Reference Rate Committee. Established by the Federal Reserve Board and the Federal Reserve Bank of New York to help ensure a successful transition away from US dollar LIBOR across the markets that

have historically used it.

BMR

EU Benchmarks Regulation (the **EU BMR**) or, from 1 January 2021, the equivalent legislation incorporated into UK domestic law as retained EU law

(the UK BMR). See paragraph 1.7.

compounded RFR

See paragraph 3.1.

**FCA** 

The UK Financial Conduct Authority, being the regulator of LIBOR.

**FMSB** 

The Fixed Income, Currencies and Commodities Markets Standards Board.

Hard-Wired Fallback

See paragraph 2.1.

Hard-Wired Switch

See paragraph 2.1.

IBA

ICE Benchmark Administration Limited, being the administrator of LIBOR.

**ISDA** 

International Swaps and Derivatives Association.

LMA

Loan Market Association.

LMA Exposure

Drafts

See paragraph 1.5.

non-

representativeness

statement

A public statement by the FCA that LIBOR is no longer representative of the

market it seeks to measure.

**RFR** 

Overnight, virtually risk-free rate. See paragraph 1.3.

Sterling Working

Group

Bank of England Working Group on Sterling Risk-Free Reference Rates. Established to help ensure a successful transition away from sterling LIBOR

across the markets that have historically used it.

### Introduction

For several decades, a significant proportion of financing transactions denominated in sterling, US dollars, euro, Swiss franc and Japanese yen have used LIBOR as a reference rate to determine amounts payable (in particular interest payable) under the relevant financing transaction. Transitioning away from LIBOR is now a top priority for many financial institutions in Europe (including the UK), the US, the Middle East and beyond. The likelihood that LIBOR will disappear after 2021 (or, in the case of US dollar LIBOR, June 2023) also increasingly concerns the even wider group of stakeholders, including businesses and consumers, who use products referencing LIBOR. This note answers the questions we are most frequently asked by financial institutions and their customers about LIBOR transition in the loan markets. The note's primary focus is on commercial loans under English law documentation. However, some of the answers refer to, or will also be relevant in, other financing contexts.

The original version of this note was published in February 2020. It has now been updated to describe the position up to 3 February 2021. Key developments since we last updated the note in late October 2020 include:

- the likely continued publication of US dollar LIBOR in all the key tenors until 30 June 2023 (see paragraph 1.1);
- the publication of new LMA exposure draft facility agreements in November 2020 and January 2021 (see paragraph 1.5);
- developments in market practice, and the publication of new guidance, relating to credit adjustment spreads (see paragraphs 3.8 and 4.5); and
- the publication of term SONIA reference rates (see paragraph 3.11).

We have also included new commentary on how the use of compounded RFRs instead of LIBOR may affect financial covenants and the charging of break costs (see paragraph 3.9).

#### **Key Contacts**



Paul Holland Partner, London paul.holland@dentons.com



**Luke Whitmore**Partner, London
luke.whitmore@dentons.com



Matthew Sapte
Partner, London
matthew.sapte@dentons.com



Catherine Astruc
Partner, London
catherine.astruc@dentons.com



Celyn Armstrong
Partner, London
celyn.armstrong@dentons.com



Adam Pierce
Partner, London
adam.pierce@dentons.com



Alexander Hewitt Senior Practice Development Lawyer, London alexander.hewitt@dentons.com



Stephen Knight
Partner, Abu Dhabi
stephen.knight@dentons.com



Sadaf Buchanan Partner, Muscat sadaf.buchanan@dentons.com



Mateusz Toczyski
Partner, Warsaw
mateusz.toczyski@dentons.com



Marcel Janssen
Partner, Amsterdam
marcel.janssen@dentons.com



Michael Huertas Partner, Frankfurt michael.huertas@dentons.com



Philippe Max
Partner, Paris
philippe.max@dentons.com

### 1 Background

### 1.1 Will LIBOR no longer be published after the end of 2021?

Since the start of the LIBOR transition process, the end of 2021 has been seen as a key deadline because:

- on 27 July 2017 Andrew Bailey, then chief executive of the FCA, announced that the FCA would no longer persuade or compel LIBOR panel banks to continue making LIBOR submissions after 2021; and
- on 24 November 2017, the FCA announced that it had secured the voluntary agreement of all 20 LIBOR panel banks to continue submitting contributions until the end of 2021.

In line with this initial transition timetable, on 18 November 2020, IBA <u>announced</u> that it would be consulting on its intention to cease publishing LIBOR for sterling, euro, yen and Swiss franc on 31 December 2021. However, on 30 November 2020, it <u>announced</u> that it would also be consulting on its intention to continue publishing US dollar LIBOR in all the key tenors until 30 June 2023. Co-ordinated press releases followed from the <u>FCA</u> and the <u>US regulators</u> on the same day. These supported the announcement of a possible extension but suggested that if this extension occurs, the regulators are likely to restrict the use of US dollar LIBOR in new transactions after the end of 2021.

IBA's <u>consultation</u> on these proposed measures began on 4 December 2020 and ended on 25 January 2021. The outcome of the consultation is still awaited. However, it would be surprising if IBA does not extend the publication of US dollar LIBOR as indicated above.

### 1.2 Why are regulators so keen for the financial markets to stop using LIBOR?

The two main reasons are:

- the underlying market that LIBOR has historically sought to measure the market for unsecured wholesale term lending to banks – has not been an active market since the financial crisis; and
- the financial markets' over-reliance on LIBOR creates systemic risk.

The second of these points is particularly key. LIBOR has evolved significantly in recent years such that it is arguably no longer even an interbank rate. In April 2019, the IBA completed the transitioning of LIBOR panel banks onto a new "Waterfall Methodology". It now describes LIBOR as "a wholesale funding rate anchored in LIBOR panel banks' unsecured wholesale transactions to the greatest extent possible, with a waterfall to enable a rate to be published in all market circumstances". If LIBOR, as reformed in this way, were still only being used for its original purpose – to price loans arranged in London – regulators might have been less concerned about its ongoing use. Compare, for example, the regulators' approach to EURIBOR (see paragraph 1.8).

#### 1.3 What are RFRs and how are they relevant to LIBOR transition?

Across the full range of financial products that have historically used LIBOR, regulators want market participants to use rates based on overnight, virtually risk-free rates (**RFRs**) instead<sup>1</sup>.

<sup>&</sup>lt;sup>1</sup> Although this is not necessarily the case where other IBORs have been used to date. See paragraph 1.8.

Regulators in the home jurisdictions of each of the five current LIBOR currencies have identified the preferred RFR for their local currency, each of which is now published, as follows.

Currency	Approved RFR	Administrator	Secured or unsecured?
US dollar	SOFR (Secured Overnight Financing Rate)	Federal Reserve Bank of New York	Secured
Sterling	SONIA (Sterling Overnight Index Average)	Bank of England	Unsecured
Euro	€STR (Euro Short-Term Rate)	European Central Bank	Unsecured
Swiss franc	SARON (Swiss Average Rate Overnight)	SIX Swiss Exchange	Secured
Yen	TONA (Tokyo Overnight Average Rate)	Bank of Japan	Unsecured

Regulators prefer RFRs to IBORs because RFRs are:

- based on deep, highly liquid, overnight borrowing markets; and
- calculated by reference to recorded transactions in those markets, rather than relying on submissions from panel banks.

However, there are disadvantages to using RFRs instead of LIBOR in the loan markets. These include:

- different RFRs measure different types of overnight borrowing (some secured and some unsecured, see table above), have different calculation methodologies and are published at different times, in each case in the principal financial centre of the currency for which they have been developed; and
- RFRs have only a single tenor overnight. "Raw" RFRs are therefore not suited to fixing a rate of interest in advance over a typical interest period. For more information on how RFRs are being used in the loan markets, see paragraph 3.

### 1.4 What are credit adjustment spreads and how are they relevant to LIBOR transition?

Credit adjustment spreads are particularly relevant in the context of transitioning LIBOR-based agreements to RFR-based alternative rates, whether that transition occurs by amending existing contractual terms, or through "hard-wired" fallback or switch mechanics (see paragraph 2.1).

In either case, the transition from LIBOR to an RFR-based rate should avoid any transfer of economic value between the parties. The total amount of interest the borrower pays after the transition should – to the extent possible – stay the same.

An RFR does not price in bank credit risk or term risk so will inevitably be lower than a term LIBOR (e.g. of one, three or six months) in the same currency. Compounded RFRs (see paragraph 3.1) are likely to be higher than "raw" daily RFRs, but they will still be lower than LIBOR. Therefore, where LIBOR is replaced in an existing contract with an RFR-based rate, adding a credit adjustment spread to the latter is a useful method of avoiding any transfer of economic value.

For more information about the use of credit adjustment spreads in the loan markets, see paragraphs 3.8 and 4.5.

#### 1.5 What are the LMA Exposure Drafts?

The terms on which RFRs are used in the loan markets are not yet sufficiently settled for the LMA to publish recommended form RFR-based facility agreements. All the LMA's recommended form facility agreements are still LIBOR-based. Instead, the LMA has published the following "exposure draft" facility agreements to consult the market on the use of RFRs in lending transactions:

- In September 2019, the LMA published exposure drafts of two single currency term and revolving facilities agreements using compounded RFRs to calculate the interest. One was for sterling loans in which the interest was based on SONIA; the other was for US dollar loans in which the interest was based on SOFR.
- In September 2020, the LMA published an exposure draft of a multicurrency term and revolving facility agreement with a mechanism to switch from LIBOR to compounded RFRs at a specified date during the term of the facility.
- In November 2020, the LMA published two updated versions of its September 2020 exposure draft. For more information about the terms of the September and November 2020 LMA Exposure Drafts, see paragraph 2.
- On 28 January 2021, the LMA published a new multicurrency exposure draft providing for:
  - o interest on loans in euro to be calculated by reference to EURIBOR; but
  - interest on loans in all other currencies to be calculated by reference to compounded RFRs from the outset of the transaction.

### 1.6 How relevant to the loan markets is ISDA's work on LIBOR transition?

ISDA has provided a key "thought leadership" role in the LIBOR transition process. It has focused on developing fallbacks based on RFRs to include in legacy IBOR-based derivatives contracts with a view to ensuring contractual continuity. On 9 October 2020, ISDA published its IBOR Fallbacks Supplement. This amends the definitions of IBORs in the 2006 ISDA Definitions by adding a Hard-Wired Fallback to:

- a compounded RFR; plus
- a credit adjustment spread based on the historical difference between the relevant IBOR and that compounded RFR,

with the switch to that fallback occurring automatically on an "Index Cessation Effective Date". For LIBOR, this means either the date on which it ceases to be published, or any earlier date of a non-representativeness statement. These amendments apply automatically to trades dated on or after 25 January 2021 that incorporate the 2006 ISDA Definitions.

At the same time, ISDA published a Protocol to enable parties to incorporate this mechanism into legacy trades<sup>2</sup>. The Protocol also formally launched on 25 January 2021.

The loan markets are, to an extent, adopting some of the methodologies ISDA has developed, such as those relating to credit adjustment spreads (see paragraph 4.5). However, ISDA's use of a Protocol to deal with legacy IBOR-based derivatives:

- is not an approach the loan markets can realistically copy for dealing with legacy LIBOR loans (see paragraph 4.3); and
- is unlikely to be appropriate for amending finance-linked hedging terms (see paragraph 4.10).

In the EMEA loan markets, there has also been limited adoption of Hard-Wired Fallbacks of the type provided for in the ISDA IBOR Fallbacks Supplement (see paragraph 2.1).

### 1.7 What impact does the BMR have on the ongoing use of LIBOR in loan transactions?

The BMR has, and is likely to have, a more limited impact on the loan markets (outside consumer credit and regulated mortgages) than in other product areas that use LIBOR, such as derivatives and debt capital markets.

The BMR contains obligations on contributors to, and administrators and users of, benchmarks. Most of the restrictions on using and providing benchmarks that have been designated as "critical" (including LIBOR, EURIBOR and EONIA) only apply on or after 31 December 2021 (Article 51).

Article 28(2) of the BMR requires a supervised entity that uses a benchmark (which includes LIBOR) to have robust written plans setting out what actions will be taken if a benchmark "materially changes or ceases to be provided". Supervised entities must reflect these plans in their contracts with clients. Supervised entities are, broadly, regulated firms, including credit institutions and investment firms.

However, while parties to LIBOR-based bonds and derivatives are likely to be "using" LIBOR for the purposes of the BMR, loan transactions (other than consumer credit and regulated mortgage contracts) are out of scope. As a result, parties to commercial loans have not generally considered it necessary to include Hard-Wired Fallbacks in their loan agreements (on which see paragraph 2.1) in order to comply with the BMR.

Amendments to the BMR have recently been proposed to deal with "hard legacy" LIBOR contracts, although these are likely to have limited impact on the loan markets. See paragraph 4.2.

<sup>&</sup>lt;sup>2</sup> By signing up to a Protocol, an entity agrees that the amended terms to which the Protocol relates will automatically apply in all existing transactions between that entity and each other "adherent" to the Protocol.

### 1.8 What is happening to EURIBOR and other non-LIBOR interbank rates?

EURIBOR and TIBOR (the rate for Japanese yen in the Tokyo interbank market) will continue to be published for the foreseeable future. There are also currently no plans to discontinue the main local IBORs used in the Middle East markets – EIBOR, SAIBOR, OMIBOR and QIBOR. However, as the underlying currencies to which these local Middle East benchmarks apply are pegged to US dollars, the discontinuation of US dollar LIBOR may still have an impact on their ongoing use.

Our experience is that parties are generally preferring to continue using EURIBOR for euro loans, rather than €STR (the euro RFR), even on multicurrency transactions where compounded RFRs are being used for other currencies. The LMA has now published multicurrency exposure draft facility agreements providing for both options (see paragraph 1.5).

EONIA, the overnight interbank rate for euro (equivalent to overnight LIBOR) <u>will</u> be discontinued, on 3 January 2022. Until then, EONIA will simply track €STR (the euro RFR), being €STR plus a fixed spread of 8.5 basis points. In the loan markets, the discontinuation of EONIA is most relevant for euro swingline facilities. The LMA published a note in October 2019 with suggested drafting for new facility agreements incorporating euro swingline facilities, to take account of the phasing-out of EONIA. This provided for interest on euro swingline loans to be calculated by reference to €STR or "Enhanced €STR" (the latter being an economic equivalent to EONIA) instead of EONIA.

### 1.9 Why are regulators taking a different approach to EURIBOR (and some other IBORs) than they are taking with LIBOR?

The lower systemic risk involved in the continued use of other IBORs, when compared to LIBOR, is likely to be a significant factor. See paragraph 1.2.

### 2 New LIBOR loans

### 2.1 To what extent have lenders adjusted the terms of new LIBOR loans to anticipate LIBOR's discontinuation?

Since July 2017, market participants entering into new LIBOR-based loans with a tenor beyond 2021 have done so in the knowledge that LIBOR may well disappear during the term of the loan (subject, in recent months, to the likely extended publication of US dollar LIBOR referred to in paragraph 1.1). Broadly, three approaches to addressing this risk have emerged:

• The Amendment Approach. The parties rely on their ability to amend the pricing terms as needed at the relevant time. To facilitate the Amendment Approach, the LMA published a revised "Replacement of Screen Rate" clause in May 2018, which it has since added to the LMA's recommended forms of facility agreement. Until August 2020, this simply provided that, on a "Screen Rate Replacement Event" (an event indicating the actual or likely imminent discontinuation of a relevant IBOR), relevant amendments to the facility agreement could be made with "Majority Lender", rather than all lender, approval. In the second half of 2020, the LMA published two separate notes suggesting drafting options for expanding the scope of the Replacement of Screen Rate clause. See paragraphs 2.3 (in particular, under sub-heading "Agreed process for renegotiation") and 2.5.

- Hard-Wired Switch. This is a mechanism to switch from LIBOR to an economically
  equivalent RFR-based rate at a specified future date (which, other than in the case of US
  dollar LIBOR, would need to be before the end of 2021). Early high-profile lending
  transactions with a Hard-Wired Switch included:
  - Royal Dutch Shell's December 2019 US dollar syndicated revolving credit facility agreement; and
  - British American Tobacco's March 2020 multicurrency revolving credit facility agreement.

The September and November 2020 LMA Exposure Drafts include a Hard-Wired Switch.

• Hard-Wired Fallback. This is a mechanism to switch from LIBOR to an economically equivalent RFR-based rate if an event occurs connected to the discontinuation or other unavailability of LIBOR. This is similar to a Hard-Wired Switch, but without an automatic move away from LIBOR on a specified date. Hard-Wired Fallbacks have become standard in many derivative and bond transactions, to ensure compliance with the BMR (see paragraph 1.7). Hard-Wired Fallbacks have also gained some traction in the US loan markets; in June 2020 the ARRC published updated recommended language to include in new US dollar LIBOR transactions. However, in the EMEA loan markets, there has been limited adoption of this approach. English law loan agreements have not typically included the ARRC's drafting recommendations, even for US dollar loans.

The extent to which lenders can still offer new LIBOR loans relying on these approaches is considered in the remainder of this paragraph 2.

### 2.2 What deadlines have regulators set for the transition from LIBOR in the loan markets?

In a <u>statement</u> published on 29 April 2020 (the **April 2020 SWG Statement**) the Sterling Working Group recommended that:

- lenders providing sterling loans after Q3 2020 should be in a position to offer their customers a non-LIBOR option;
- lenders could nevertheless continue to provide new sterling LIBOR loans until the end of Q1 2021, subject to certain conditions (on which see paragraph 2.3);
- after Q1 2021, lenders should not provide new sterling LIBOR loans with tenors beyond the end of 2021<sup>3</sup>. In January 2021, the Sterling Working Group on Sterling Risk-Free Reference Rates published an updated <u>priorities list and roadmap</u> for sterling LIBOR transition, which reinforced this milestone.

On 27 May 2020, the ARRC published its own <u>recommendations</u> for the transition away from US dollar LIBOR – including a target of no new US dollar LIBOR business loans after the end of Q2 2021. The ARRC has not officially changed this target, even though it is now likely that IBA will continue publishing US dollar LIBOR until the end of June 2023 (see paragraph 1.1). This is on the basis that the ARRC remains committed to encouraging lenders to transition away from US dollar LIBOR as soon as possible. However, since the announcement of that likely extension of US dollar LIBOR publication, UK and US regulators have focused on the

<sup>&</sup>lt;sup>3</sup> The Sterling Working Group has since clarified that this deadline applies to the date of the agreement creating the commitment to lend, rather than the date of drawing. See "Definition of issuance" in this <u>Q&A document</u>.

end of 2021 as the target date for ending new US dollar LIBOR loans, and this is the deadline most lenders are now likely to work towards for US dollar transactions.

### 2.3 On what basis can lenders provide new sterling LIBOR loans until the end of Q1 2021?

In the April 2020 SWG Statement, the Sterling Working Group recommended that any new sterling LIBOR loans after Q3 2020 contain "clear contractual arrangements...to facilitate conversion ahead of end-2021, through pre-agreed conversion terms or an agreed process for renegotiation, to SONIA or other alternatives". How can lenders satisfy these conditions?

- Pre-agreed conversion terms. A facility agreement with a Hard-Wired Switch from LIBOR to a SONIA-based rate, as provided for in the September and November 2020 LMA Exposure Drafts, would clearly satisfy the requirement for "pre-agreed conversion terms".
- Agreed process for renegotiation. In July 2020, the Sterling Working Group published a Q&A document (the July 2020 SWG Q&A), which provided more detail on its expectations relating to the transition steps recommended in the April 2020 SWG Statement. The Sterling Working Group made clear that including the LMA Replacement of Screen Rate clause at the time (as described in paragraph 2.1 - see "The Amendment Approach") did not in itself constitute a satisfactory "agreed process for renegotiation". To address this, on 24 August 2020 the LMA published "Revised Replacement of Screen Rate Clause and documentary recommendations published by the WGSRFR". This suggested supplementing the existing form of LMA Replacement of Screen Rate clause by adding an obligation on the parties to renegotiate in good faith if LIBOR is still being used to calculate interest accruing under the facility agreement at a specified date before the end of 2021. They would aim to complete that negotiation by a second specified date, also before the end of 2021. This should constitute an "agreed process for renegotiation". Unlike the "Majority Lender" aspect of the LMA Replacement of Screen Rate clause, this mechanism is equally appropriate to include in a bilateral facility as in a syndicated facility.

From a documentary and operational perspective, including this "enhanced" Replacement of Screen Rate clause into a loan is likely to be much more straightforward than including a Hard-Wired Switch. However, the Sterling Working Group made clear in the July 2020 SWG Q&A that including "pre-agreed conversion terms" is preferable where possible. It said "the greatest certainty for borrowers and lenders will be achieved by setting out in advance the terms for conversion at a future date or, if that is not achievable, by aiming to come as close to this as possible to minimise the risk of protracted or unsuccessful negotiations at a later date". With lenders now expected to at least offer an alternative to LIBOR on sterling transactions (see paragraph 2.2), a lender cannot simply add the LMA's enhanced Replacement of Screen Rate clause to its loan agreements and continue to provide sterling LIBOR-based loans as before.

### 2.4 Should parties include an obligation to renegotiate in new non-sterling LIBOR loans?

There is no regulatory requirement to do so – the Sterling Working Group's remit does not extend to other LIBOR currencies. As such, even before the announcement of the likely ongoing publication of US dollar LIBOR until the end of June 2023 (see paragraph 1.1), many lenders were choosing not to include a specific obligation to renegotiate in facility agreements for non-sterling LIBOR transactions. Unsurprisingly, since that announcement parties to US dollar LIBOR transactions are generally preferring not to bind themselves to a commitment to

renegotiate before the end of 2021, other than on some multicurrency facilities that also involve sterling.

### 2.5 What is the significance of the LMA's October 2020 statement on its Replacement of Screen Rate clause and pre-cessation trigger?

On 21 October 2020, the LMA published a further note, entitled "LMA Revised Replacement of Screen Rate Clause and pre-cessation trigger". This acknowledged that:

- under ISDA's IBOR Fallbacks Supplement, the events that would trigger use of RFRbased fallbacks in place of LIBOR in derivatives contracts include a nonrepresentativeness statement; but
- the definition of "Screen Rate Replacement Event" in the current LMA Replacement of Screen Rate clause does not specifically refer to a non-representativeness statement.

As such, the note suggests that parties may wish to consider adding an additional limb to the definition of "Screen Rate Replacement Event" referring to a non-representativeness statement. This seems uncontroversial and we anticipate parties will now make this change to agreements containing the LMA Replacement of Screen Rate clause. However, whether parties choose to do so is likely to have limited impact on when they will be able to use the Replacement of Screen Rate clause to make LIBOR-related amendments with Majority Lender consent. This is because the definition of Screen Rate Replacement Event already includes a determination by the Majority Lenders and the borrower that LIBOR is "otherwise no longer appropriate for the purposes of calculating interest under this Agreement".

### 2.6 Has the prospect of LIBOR being discontinued had any other impact on the terms of new LIBOR-based loans?

Some lenders now require their LIBOR-based facility agreements to state that the borrower will pay the reasonably incurred costs of the lender or (on a syndicated transaction) agent in any future amendment to the facility terms relating to LIBOR transition. However, this is by no means a market standard approach. Indeed, borrowers often argue for the opposite position – a clear statement that the borrower will not have to pay any other party's costs of any amendment relating to LIBOR discontinuation. For more information about the costs of amending legacy LIBOR loans, see paragraph 4.8.

### 2.7 To what extent have the loan markets transitioned away from LIBOR on new transactions?

The transition away from LIBOR has been much slower in the loan markets than in other markets that have traditionally used LIBOR, in particular derivatives and bonds, and progress during 2020 has undoubtedly been hindered by COVID-19. In the sterling loan markets, lenders have though taken note of the milestones set by the Sterling Working Group, and are now regularly offering SONIA-based loans, or at least LIBOR loans with a Hard-Wired Switch. This approach is also now commonly taken in multicurrency facilities involving sterling. By contrast, our experience is that, for single currency US dollar loans, LIBOR remains very much the default option, in most cases without a Hard-Wired Switch or Hard-Wired Fallback. EURIBOR remains the most commonly used benchmark for euro loans.

### 3 New RFR-based loans

#### 3.1 How can RFRs be used to calculate interest on loan transactions?

In English law agreements, and other agreements based on English law forms of documentation (as is common, for example, in the Middle East), we anticipate that for most (but not all) loan products that have historically used LIBOR, lenders will instead use compounded in arrear RFRs (**compounded RFRs**) with a "look-back" period of five business days.

The RFR-based loans made to date under English law that we are aware of have adopted this approach, as do all the LMA Exposure Drafts. The UK regulators also advocate the wide adoption of compounded RFRs. In January 2020, the Sterling Working Group published <u>Use Cases of Benchmark Rates: Compounded in Arrears, Term Rate and Further Alternatives.</u> It argued that 90% of loans by volume should be able to transition to use compounded RFRs. Although the remit of the Sterling Working Group is limited to the transition of sterling LIBOR, the analysis of whether compounded RFRs are suitable for a particular product is not currency dependent. So its views may also be of interest to, and influence practice in, US dollar and other LIBOR currency products.

However, this does not mean that there is a single, settled methodology for using RFRs on loan transactions – there are a number of possible variables within this basic approach. See paragraphs 3.6 and 3.7.

### 3.2 What is the significance of the "look-back" when using a compounded RFR?

LIBOR for an interest period is fixed at the beginning of that interest period: all the parties know then how much interest the borrower will have to pay at the end of the interest period. By contrast, the total interest accruing over a period based on a compounded RFR cannot be determined until the end of that period. A "look-back" mechanism provides that the interest payable over an interest period is not determined by the RFR over the interest period itself, but over an "observation period". The observation period is the same number of business days as the interest period but starts and ends a specified number of business days before the relevant interest period. This ensures the parties know the interest that will be payable at the end of that interest period a few days in advance of the payment date.

### 3.3 What does the "compounding" of an RFR involve?

Broadly, this means that the RFR itself is compounded on each business day over the relevant observation period, using the daily published rates during that period. It does not involve any "capitalisation" or compounding of accrued interest. Consequently, the principal amount of the loan does not increase as interest accrues during the interest period. RFRs are daily rates that anticipate repayment of principal and accrued interest the following day. Where RFRs are being used to calculate interest that will only be payable over a longer term (such as one or three months), it is considered more economically logical to compound the rates daily over that term.

### 3.4 Are compounded RFRs being published for the tenors most commonly used as interest periods?

Since 2 March 2020 the Federal Reserve Bank of New York has <u>published on each business</u> <u>day</u> the compounded average SOFR over the previous 30, 90 and 180 days. Since 25 March 2020, SIX Swiss Exchange has similarly published compounded average SARON over the

previous one, three and six month periods. In July 2020, the European Central Bank launched a consultation on publishing similar rates for €STR.

However, using published "period averages" of this nature is not without its complications. When calculating compounded RFRs over an interest period, the length of the observation period is typically determined by the number of <u>business days</u> in the relevant interest period rather than the number of calendar days. So a published three-month compounded average RFR cannot be reliably used to calculate the compounded average RFR over an observation period for a three-month interest period – the observation period may be a slightly different length. In February 2020, the Bank of England began a consultation on whether to publish SONIA period averages, but stated that "*in the absence of a clear market consensus it is likely the Bank would choose not to publish period averages at this time*". In <u>June 2020</u>, it notified the market that no consensus had emerged from the consultation about whether period averages for SONIA would be useful, or on the most appropriate conventions for calculating them. It therefore confirmed that it would not be publishing period averages for SONIA for the time being.

### 3.5 Can published indexes streamline the calculation of compounded RFRs on loan transactions?

A compounded index of an RFR represents the returns from a rolling investment earning interest at that RFR on a compounded basis. The change in this index between any two dates can be used to calculate the compounded average of the relevant RFR over that period. Inflation indexes (such as the CPI and RPI) work in a similar way.

The Bank of England began publishing a <u>SONIA compounded index</u> on 3 August 2020. RFR compounded indexes were already published for SOFR (since 2 March 2020) and <u>SARON</u> (for some time), and in July 2020 the European Central Bank launched a consultation on publishing an <u>€STR compounded index</u>.

One of the main advantages of this type of index is its flexibility. It enables parties to calculate compounded average interest easily for a period of any maturity using any combination of start and end dates. However, it still requires a calculation to be performed, and so does not provide the same operational convenience as published term rates (e.g. of one, three and six months) that parties using LIBOR have been used to.

In any event, the methodologies that the loan markets are increasingly adopting to calculate compounded RFRs are not, in most cases, consistent with using published indexes (or published period averages, where available) to streamline their calculation for the foreseeable future. See paragraph 3.6.

### 3.6 What is the difference between the "lag" and "observation shift" methods?

"Lag"<sup>4</sup> and "observation shift" are different methods of calculating compounded RFRs. Under both methods:

• the observation period is determined in the same way – if there is a five business day look-back, the observation period begins five business days before the beginning of the

<sup>&</sup>lt;sup>4</sup> The term "lag" is not used entirely consistently. Sometimes parties use it to describe any look-back mechanism. Where that is the case, the lag method described in this paragraph might be called a "lag without a shift/observation shift", and the observation shift method described in this paragraph called a "lag with a shift/observation shift".

relevant interest period and ends on (but excludes) the day five business days before the end of that interest period; and

• the interest rate for the interest period is determined by reference to the daily RFRs during the observation period.

The key difference between the two methods relates to the weighting of the daily RFRs in the compounding formula to address non-business days (on which RFRs are not published). As explained below, under the observation shift method, the relevant non-business days occur in the observation period. But under the lag method, the relevant non-business days occur in the interest period itself.

Under the observation shift method, a multiplier is applied to the RFR for any business day during the observation period if <u>that business day</u> is immediately followed by one or more non-business days. For example, the RFR on any Friday that is a business day will be multiplied by three if the immediately following Monday is not a public holiday. In that way, Friday's rate is treated as applying on Friday and on the immediately succeeding Saturday and Sunday<sup>5</sup>. If the immediately following Monday is a public holiday, Friday's rate will be multiplied by four instead.

The lag method also weights daily RFRs to address non-business days. But it applies a multiplier to an RFR on any business day during the observation period if the day that is five business days after that business day is immediately followed by one or more non-business days (assuming a five business day look-back between the interest period and its observation period). Whilst the observation shift method "shifts" the weighting of the daily RFRs back to the days in the observation period, with the lag method it remains based on the days in the interest period. See the Appendix for a worked example.

The two methods are unlikely to produce significantly different results, and the technical differences between them may be of limited interest other than to those who need to calculate them. There is, however, a significant practical difference. A compounded RFR over a specified observation period calculated using the observation shift method is not impacted by any variables outside that observation period. As such, it can be calculated from a published index of the relevant compounded average rate (see paragraph 3.5). This is not possible when using the lag method.

The earliest RFR-based English law loan and bond transactions generally used the lag method. However, in early 2020 interest in the observation shift method grew in both the loan and bond markets, in anticipation of the publication of SONIA and SOFR compounded indexes (which has since occurred). The use of observation shift in British American Tobacco's multicurrency revolving credit facility agreement in March 2020 suggested that the loan market was beginning to embrace observation shift.

However, in July 2020, the <u>ARRC recommended the lag method for SOFR-based business loans</u> on the basis that the observation shift could result in inappropriate calculations if loans are prepaid or traded mid-interest period. In September 2020, the Sterling Working Group made the same recommendation for SONIA-based loans in <u>Recommendations for SONIA Loan Market Conventions</u>, and our experience is that most lenders have now settled on using the lag method. Nevertheless, the LMA published two versions of its November 2020

<sup>&</sup>lt;sup>5</sup> For brevity, we assume a working week of Monday to Friday. In some markets the working week will end on Thursday and restart on Sunday.

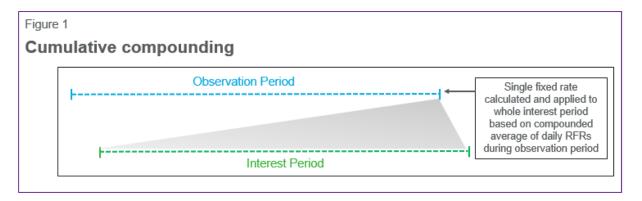
Exposure Draft – one providing for "lag" and the other "observation shift" – reflecting that observation shift is still being used in some loan transactions.

The widespread use of the lag method means that most RFR-based loan transactions will need to be calculated manually by agents and lenders for the foreseeable future, by inputting the daily rates for the relevant RFR during each observation period into one or more formulas (for example, as set out in the Appendix).

### 3.7 What is the difference between cumulative and non-cumulative compounding?

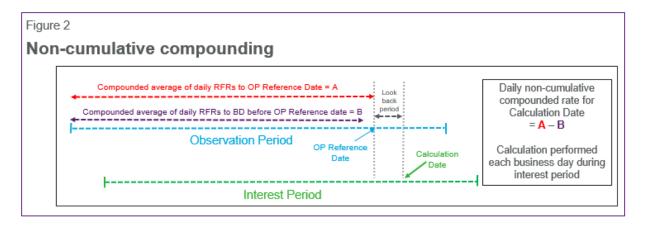
There are two basic methods of compounding: cumulative and non-cumulative.

- Cumulative compounding. The agent (or lender on a bilateral transaction) determines
  the total amount of interest accruing over a whole interest period by calculating the
  compounded average of the risk-free rate over the whole of the related observation
  period. See Figure 1 below. Therefore, with cumulative compounding:
  - a single interest calculation is required for each interest period, which is performed at the end of the related observation period;
  - although the interest rate is floating, the same interest rate applies on each day throughout an interest period, as in a LIBOR loan.



Non-cumulative compounding. Provided the same rounding conventions are used,
non-cumulative compounding results in the same amount of interest accruing over a
whole interest period as cumulative compounding. However, non-cumulative
compounding makes it possible to calculate the interest that has accrued since the start
of an interest period on any day during the interest period – there is no need to wait until
the end of the observation period.

Figure 2 below illustrates how the interest rate on a business day in an interest period – referred to as the "Calculation Date" – is calculated using non-cumulative compounding.



If the Calculation Date is the nth business day in the Interest Period, this rate will be based on the daily RFRs from the beginning of the related observation period to the nth business day in that observation period (referred to as the "OP Reference Date" in Figure 2). It is then necessary to perform two calculations:

- first, calculate the compounded average of the relevant RFR from the beginning of the observation period to the OP Reference Date (referred to as "A" in Figure 2); and
- secondly, calculate the compounded average of the relevant RFR from the beginning
  of the observation period to the business day before the OP Reference Date (referred
  to as "B" in Figure 2).

A minus B is the non-cumulative compounded rate that will be applied to determine the interest rate on the Calculation Date. This calculation must be repeated on each business day during the term of the loan.

Until Q3 2020, cumulative compounding had been the preferred method (indeed, arguably the only method) of calculating interest on RFR-based loans in the EMEA region. However, in September 2020, the Sterling Working Group published Recommendations for SONIA Loan Market Conventions and accompanying slides, commenting in the latter that "the Non-Cumulative Rate method is preferred for loans as it better supports intra interest period events such as loan trading activity, to distribute interest to the lenders on a pro rata basis". If a lender transfers some or all of its loan commitments (or a loan is prepaid), in the middle of an interest period, the amount of interest that has accrued since the start of the interest period may determine how much one party must pay to another at that time. Where cumulative compounding is used, that accrued interest cannot be calculated until the end of the related observation period.

To reflect the Sterling Working Group's recommendation, all the LMA Exposure Drafts published since September 2020 have provided for non-cumulative compounding (both for calculating compounded SONIA and other RFRs), and this has become the most common approach in the UK market. However, the use of non-cumulative compounding is not a settled market standard. In SOFR "In Arrears" Conventions for Syndicated Business Loans, published in July 2020, the ARRC noted both cumulative and non-cumulative compounding as options for business loans, but without recommending one or the other. Even in the UK sterling market, some lenders currently still prefer to use cumulative compounding. Non-cumulative compounding undoubtedly makes the interest rate methodology even more complicated, both for agents and lenders to calculate, and for relationship managers to explain to their borrower customers.

### 3.8 Is it necessary to include a credit adjustment spread in new loans that use compounded RFRs from the outset?

For background information on credit adjustment spreads, see paragraph 1.4. For guidance on credit adjustment spread methodologies, see paragraph 4.5.

For interest based on compounded RFRs, a credit adjustment spread will almost always be included as a separate component of the interest calculation where the loan was originally LIBOR-based. This is the case whether the conversion to compounded RFRs occurred through a Hard-Wired Switch, a Hard-Wired Fallback or a manual amendment.

By contrast, it is not essential to include a credit adjustment spread where interest on a loan is to be calculated by reference to compounded RFRs from the outset. Instead the parties can simply adjust the margin with a view to keeping the overall interest cost the same as it would have been in an equivalent LIBOR-based loan. However, at present, parties are often choosing to include credit adjustment spreads in this context too, for the following reasons:

- Parties are used to considering margin levels in the context of LIBOR-based loans.
- To increase general transparency regarding the components of the interest rate.
- Unlike LIBOR, compounded RFRs are not intended to approximate lenders' cost of funds
  over an interest period. So if the parties want to include a "cost of funds" fallback (which
  would apply either on "market disruption" or on the unavailability of both the relevant RFR
  and fallback central bank rate), it is logical for this to replace the compounded RFR plus a
  credit adjustment spread.

Although this is a common approach while the loan market transitions away from LIBOR, it would be surprising if credit adjustment spreads remain a feature of compounded RFR loans in the long term.

#### 3.9 How does the use of compounded RFRs instead of LIBOR affect other loan terms?

- Financial covenants. In transactions where the borrower has predictable income streams, such as real estate finance and project finance, it is common to test projected income over a future period typically of 12 months against projected financing charges during that period. For the purposes of calculating this forward-looking test, it is necessary to make certain assumptions about both sides of this equation. In LIBOR-based transactions, one option for calculating projected financing charges is to assume that the LIBOR element of any unhedged interest over the test period will be 12 month LIBOR as at the beginning of the test period. There is no obvious equivalent to this where interest is based on compounded RFRs. Our experience is that most lenders are effectively now testing projected income against historical interest rates for example by assuming that (for any unhedged interest) the compounded RFR over the test period will be the same as over the previous 12-month period.
- Break costs. Lenders of LIBOR-based loans usually charge break costs if a prepayment is made mid-interest period. This is on the assumption that for each interest period, the lender funds itself by borrowing a matching loan in the interbank market for the duration of that interest period (although in practice, this is now rarely the case). Loans based on compounded RFRs are not even notionally funded by lenders on the basis of "matched funding" in this way, and so there is less obvious justification for charging break costs on a prepayment during an interest period. However, it is possible that lenders may have put

in place other back-to-back arrangements that would need to be "broken" on a midinterest period prepayment, and the LMA Exposure Drafts retain an option for lenders to charge break costs on compounded RFR loans. Many lenders are willing not to do so, but some instead impose a limit on the number of voluntary prepayments permitted during the facility. Another option some lenders have used is to charge a fixed administrative fee for mid-interest period prepayments.

### 3.10 Is it anticipated that all types of loan products that have used LIBOR to date will use compounded RFRs instead?

No. In its January 2020 publication <u>Use Cases of Benchmark Rates: Compounded in Arrears, Term Rate and Further Alternatives</u>, the Sterling Working Group acknowledged that using compounded RFRs with a short look-back period could be impractical for some loan types including:

- loans to smaller corporate wealth and retail clients;
- trade finance and working capital products (such as bill or invoice discounting facilities);
- export finance;
- Islamic finance;
- loans to borrowers in emerging market jurisdictions with exchange controls.

These products have been identified as problematic because it is particularly important for parties to these products to be able to ascertain the amount of interest (or equivalent) that will accrue during an interest period at the outset of that interest period, or significantly in advance of the interest becoming payable. The Sterling Working Group has accepted that it might be more appropriate to calculate interest for these products using a term RFR (see paragraph 3.11), or an alternative rate (such as a central bank base rate or fixed rate), rather than compounded RFRs.

We anticipate that these alternatives might also be used in some other types of loan products, particularly on smaller transactions. Using compounded RFRs creates significant documentary and operational complexity, particularly as manual calculation of interest will be necessary on most RFR-based loan transactions for the foreseeable future (see paragraph 3.6). Relationship managers at lenders are unlikely to relish explaining compounded RFRs to their SME customers.

### 3.11 Are forward-looking term RFRs an alternative to compounded RFRs?

Not for the majority of loan products.

To replace LIBOR, many loan market participants have called for the development of forward-looking term rates derived from RFRs (**forward term RFRs**) for each LIBOR currency and tenor. Like LIBOR, forward term RFRs would make it possible to calculate the interest payable over an interest period at the beginning of that interest period.

However, the UK and US regulators, in particular, have put pressure on the loan markets to switch from using LIBOR to using RFRs without waiting for the development of forward term RFRs. One of the perceived advantages of RFRs over IBORs is that RFRs are derived directly from transaction data in very deep markets. By contrast, LIBOR derives from what are

now very shallow markets and relies on submissions from a limited number of panel banks participating in those markets. That advantage may not apply to forward term RFRs, at least for the foreseeable future, as they are likely to be based not on overnight borrowing transactions themselves, but on derivative transactions based on the overnight borrowing market.

As noted in paragraph 3.10, the Sterling Working Group has made it clear that compounded RFRs are appropriate for the vast majority of the sterling LIBOR loan market, and that a forward term RFR (or alternative rate) is likely to be appropriate for only certain niche products, including those listed at paragraph 3.10.

Nevertheless, published forward term RFRs for SONIA (known as **TSRRs** – term SONIA reference rates) are now available. On 11 January 2021, both <u>IBA</u> and <u>Refinitiv</u> announced that they were to start publishing TSRRs for one, three, six and 12 month tenors, with similar methodologies. It is anticipated that FTSE Russell will also start to do so shortly. All of these benchmark administrators started to publish beta versions of TSRRs in mid-2020. In October 2020, the Sterling Working Group published a <u>summary</u> of these rates, in which it reiterated its view that use of TSRRs should be limited, with most LIBOR products transitioning to compounded RFRs. The Sterling Working Group is also engaging with the <u>FMSB</u>, which has been developing a proposed market standard for limited use of TSRRs. The FMSB intends to publish a draft of this standard shortly, in consultation with the Sterling Working Group.

Progress on the development of forward term RFRs for other LIBOR currencies has been mixed. For example:

- the <u>ARRC has tentatively suggested</u> a SOFR forward-looking term RFR might be available by the end of Q2 2021, provided there is sufficient liquidity in the underlying derivatives markets;
- since 9 October 2020, QUICK Corp has been calculating and publishing daily prototype rates of the Tokyo Term Risk-Free Rate (TORF); and
- the National Working Group on Swiss Franc Reference Rates has indicated that a SARON term RFR is unlikely to be feasible and recommends using compounded average in arrear SARON wherever possible.

### 4 Legacy LIBOR loans

What are the options for dealing with existing LIBOR-based loans with a term beyond 2021 (legacy LIBOR loans)?

For legacy LIBOR loans that do not contain a Hard-Wired Switch or Hard-Wired Fallback (being the vast majority), there are broadly three options.

Amend the loan terms so the interest is calculated by reference to an RFR-based rate (or
other benchmark acceptable to the relevant regulator). Most banks with significant legacy
LIBOR books are actively planning to adopt this approach, by undertaking major "bulk"
repapering projects<sup>6</sup>. In advance of that, where parties are making other amendments to
the terms of existing LIBOR loans, they are increasingly using that as an opportunity to

<sup>&</sup>lt;sup>6</sup> The Dentons multi-jurisdictional <u>LIBOR remediation team</u> is advising on a number of these projects.

also amend the interest rate mechanics, particularly on sterling and multicurrency facilities.

- Amend the loan terms to include a Hard-Wired Switch or Hard-Wired Fallback. In some
  cases, parties are supplementing LIBOR terms with a Hard-Wired Switch when making
  other amendments to the terms of existing LIBOR loans. However, in the main, once
  parties know what alternative to LIBOR they want to use and are able to use it, they will
  generally amend the loan terms to make that the primary source of interest calculation,
  rather than as a fallback.
- Do nothing, relying on the existing fallbacks in the agreement. Under typical fallbacks, the rate of interest following a permanent discontinuation of LIBOR is likely to be each lender's own cost of funds plus the margin (instead of LIBOR plus the margin). This is clearly unattractive for a borrower. On a syndicated facility agreement, it is also unattractive for an agent, who will have to calculate different interest rates for different lenders. While superficially more attractive for a lender, this is unlikely to be a viable long-term solution. Failing to take active steps to address LIBOR discontinuation could adversely affect a lender's relationship with both its customers and its regulators.

### 4.2 Are any legislative solutions anticipated to avoid the need to amend legacy LIBOR loans manually?

For the reasons discussed below, particularly the scope of proposed UK, US and EU legislative solutions for "tough legacy contracts", parties to English law legacy LIBOR loans should still assume that they will need to amend their terms before the end of 2021 (or in the case of US dollar loans, the end of June 2023), unless the loan in question already contains a Hard-Wired Switch or a Hard-Wired Fallback, or is scheduled to be repaid before then.

In the first two years after Andrew Bailey's July 2017 LIBOR discontinuation announcement (see paragraph 1.1), there was surprisingly little discussion about legislative solutions. Then, in a speech in New York in July 2019, Mr Bailey (still then chief executive of the FCA) mooted the possibility of legislation helping with the transition of the financial markets away from LIBOR, including "legislators redefin[ing] LIBOR as RFRs plus fixed spreads for...tough legacy contracts". "Tough legacy contracts" means those with inadequate fallbacks that are difficult to amend. Legacy LIBOR bonds are usually seen as the most obvious category of "tough legacy", but regulators have also acknowledged the practical difficulties of amending huge volumes of legacy LIBOR loans<sup>7</sup>. Key recent developments in legislative solutions for tough legacy contracts are summarised below.

- UK. On 21 October 2020, the UK government introduced a <u>Financial Services Bill to Parliament</u>. If enacted, this will give the FCA additional powers to deal with "hard legacy" contracts, by amending the UK BMR. Under this proposal, if the FCA determines that LIBOR is no longer representative of the underlying market it represents, it will have the power to:
  - allow a "synthetic LIBOR" based on a new methodology to continue to be used in "tough legacy" contracts that the FCA designates;
  - otherwise prohibit the ongoing use of LIBOR by UK supervised entities.

<sup>&</sup>lt;sup>7</sup> See, for example the May 2020 <u>Paper on the identification of Tough Legacy issues</u> by the "Tough Legacy Taskforce" formed by the Sterling Working Group.

However, there is no certainty that the FCA will exercise these powers to create a synthetic LIBOR. If it did, it may choose to do so only for certain currencies or tenors of LIBOR, and only for limited products. And as this synthetic LIBOR mechanism relates to the "use" of LIBOR under the UK BMR, it also appears that this proposal does not directly apply to commercial loan agreements (see paragraph 1.7).

- US. In March 2020, the <u>ARRC announced</u> a proposed legislative solution for New York law US dollar LIBOR-based contracts, and in December 2020 <u>published</u> an updated draft of this legislation. This provides that in existing LIBOR contracts with inadequate fallbacks, references to LIBOR will automatically be replaced with references to a "Recommended Benchmark Replacement" designated by the Federal Reserve Board, the Federal Reserve Bank of New York, or the ARRC. (The draft legislation does not specify what this replacement will be.) This automatic replacement would, for example, override a fallback to a previous LIBOR rate or other rate based on an interbank funding rate. It would not override a fallback to a different publicly quoted rate, such as the prime rate. As a prime rate fallback is a common feature of New York law LIBOR-based business loans, many may be out of scope. Nevertheless, the legislation does not exclude any product types. Although <u>a bill</u> was introduced to the New York State Senate consistent with the ARRC proposal in October 2020, it is unclear whether this will be taken forward in its original form. Legislation at federal level is also being considered, although few details are currently available.
- EU. On 24 July 2020, the European Commission <u>published a proposal</u> to amend the EU BMR to ensure contractual continuity if a major benchmark used in the EU, such as LIBOR, is discontinued or becomes unrepresentative of its underlying market. The Commission proposed that in these circumstances it would be empowered to identify a "statutory replacement rate". This would automatically replace the outgoing benchmark by operation of law in in-scope contracts without "suitable fallback provisions". The proposal is currently progressing through the EU legislative process, and it seems likely that the final legislation will differ in some respects from the original proposal. For example, the Commission's original proposal applied only to contracts in scope of the EU BMR (which would exclude commercial loans, see paragraph 1.7) to which at least one EU-supervised entity was a party. The EU Parliament has suggested it should instead:
  - apply to all types of contract referencing a relevant benchmark (not just those within scope of the EU BMR); but
  - not apply to contracts governed by the law of a non-EU country unless all the parties are EU-incorporated, and the law of that other country does not provide for an orderly wind-down of the benchmark.

If these proposals are progressed into law, the relevant regulators in the UK, US and EU proposals will need to work closely together to ensure specific transactions are not affected by them in inconsistent ways.

### 4.3 Are any protocols available or anticipated to streamline the process of amending legacy loans?

It is not anticipated that an ISDA style protocol (see paragraph 1.6) will be developed for amending legacy LIBOR loans. The main reasons for this are:

• loan terms are not as standardised as derivative terms;

- derivatives are always bilateral. If both parties to an existing derivatives transaction sign
  up to a protocol, this will amend the terms of that transaction. Facility agreements often
  have multiple parties, making it harder to effect change in this way;
- many derivative contracts are between financial institutions. If a relatively small number of
  financial institutions sign up to an ISDA Protocol, this can result in the amendment of a
  significant number of derivative contracts. By contrast, most borrowers are only party to
  one (or a small number) of facility agreements at any one time.

### 4.4 What are the key market developments that will enable the widespread amendment of legacy LIBOR loans?

For loans that will transition to compounded RFRs (anticipated to be the majority):

- banks completing the process of recalibrating their loan operations systems, and the software supporting them, so that they are compatible with compounded RFRs;
- substantive transition away from LIBOR on new transactions, with a reasonably settled
  market approach within each relevant product area on how compounded RFRs are to be
  used in place of LIBOR this is likely to be particularly important on syndicated
  transactions; and
- a standardised approach to calculating credit adjustment spreads in the context of "active transitions" from LIBOR to compounded RFRs (on which, see paragraph 4.5).

In deciding when to begin their LIBOR repapering projects, lenders will also need to take account of milestones set by regulators and transition oversight groups. In its <u>September 2020 newsletter</u>, the Sterling Working Group stated that market participants should start this process "where viable" as early as Q4 2020. We anticipate that most lenders with large LIBOR legacy loan books will begin active conversions in the first half of 2021, although some may choose to defer the conversion of their (single currency) US dollar LIBOR loan books.

### 4.5 How are credit adjustment spreads being calculated in the loan markets?

ISDA has taken the lead in identifying a preferred method of calculating credit adjustment spreads between an IBOR that is being replaced and a compounded RFR that is replacing it. For derivative transactions it has determined that this spread should be the median average difference between the two rates over the previous five years (the **5YHM Approach**). The spread will be calculated and published by Bloomberg on an "Index Cessation Event" – being a formal announcement that the IBOR will be discontinued or (in the case of LIBOR) a non-representativeness statement. Each spread will be fixed at that point. Fluctuations in the relevant IBOR (while it remains published) and the RFR-based rate after the Index Cessation Event will have no impact on the credit adjustment spread.

In September 2020, the Sterling Working Group published a <u>statement of recommendation</u> on credit adjustment spread methodologies for use with legacy sterling LIBOR cash products (including loans), in which it endorsed ISDA's approach to credit adjustment spreads. The ARRC had already confirmed the same recommendation for US dollar cash products.

However, the precise scenario anticipated in ISDA's credit adjustment spread methodology (and the endorsement of it by the Sterling Working Group and ARRC) is only directly relevant where a LIBOR-based contract is transitioning to compounded RFRs on or following an Index Cessation Event (as defined in ISDA documentation). This is only likely to be the case where

the contract contains a Hard-Wired Fallback. In the English law markets, floating rate notes have increasingly included these Hard-Wired Fallbacks, in part to ensure compliance with the BMR. By contrast, commercial loans are (broadly) outside the scope of the BMR and to date have rarely done so (see paragraph 1.7).

In the English law loan market, it is more likely that a credit adjustment spread will need to be calculated in advance of any Index Cessation Event, for example:

- where the parties are manually amending an existing LIBOR-based loan agreement, to replace LIBOR with compounded RFRs; or
- where a loan agreement contains a Hard-Wired Switch.

(Parties may also wish to include a credit adjustment spread when entering into a new compounded RFR-based loan agreement (see paragraph 3.8).)

On 18 December 2020, the Sterling Working Group published a paper highlighting the key methodologies emerging in the loan market to calculate the credit adjustment spread in these "active transition" contexts. It noted that, although using the 5YHM Approach is an option, "prior to GBP LIBOR permanently ceasing or becoming unrepresentative, a historical median does not necessarily represent the market expectations of the future difference between GBP LIBOR and SONIA". As an alternative, it suggested using a rate based on the current LIBOR-compounded RFR swap rates for the relevant currency and tenor (the **Forward Approach**).

There is currently no market standard approach in the loan market to calculating credit adjustment spreads. Some lenders favour the 5YHM Approach, others the Forward Approach. On Hard-Wired Switch transactions, some lenders prefer to calculate the credit adjustment spread before signing and refer to it in the loan agreement as a specified percentage rate per annum. Others prefer to include a methodology in the agreement to calculate the credit adjustment spread at the time of the switch. While these differing lender approaches are generally unproblematic on bilateral transactions, they can create complications on club and syndicated transactions. Borrowers are also becoming more aware of the potential economic differences between the 5YHM Approach and the Forward Approach.

### 4.6 Is there a standardised documentary approach to amending the terms of legacy LIBOR loans?

On 25 October 2019, the LMA released another document in exposure draft form – the Reference Rate Selection Agreement (the **RRSA**). The purpose of the RRSA is to help streamline the process of replacing LIBOR with an RFR-based rate in the many legacy transactions that have tenors beyond 31 December 2021.

The scheme of the RRSA is that:

- all parties to the legacy LIBOR-based facilities agreement whose benchmark rate is to be replaced will execute the RRSA;
- in the RRSA, those parties will make high-level selections from a series of pre-determined key options for amending the legacy facilities agreement;
- the RRSA will authorise the agent and the obligors to enter into a separate amendment agreement amending the legacy facilities agreement; and

• that amendment agreement will bind all parties to the legacy facilities agreement and implement in detail the high-level key choices taken by all parties in the RRSA.

The RRSA is therefore not a recommended form of amendment agreement. It simply provides a mechanism to enable the agent and borrower to agree amendments (in a separate document) within an agreed framework, without having to obtain further consents from the syndicate. The RRSA therefore would have no application in a bilateral transaction.

It is too early to tell whether there will be significant take-up of the RRSA when syndicated legacy LIBOR loans are amended. Other than the RRSA, there are no standard or recommended form documents available to deal with the amendment of legacy LIBOR loans.

### 4.7 Who will instigate the amendment of legacy LIBOR loan agreements?

We anticipate that lenders will generally instigate this process, on both bilateral and syndicated transactions. On syndicated transactions, a lender wishing to start an amendment process would first need to put forward a proposal to the agent, and ask it to circulate this among the syndicate for discussion and agreement, before any proposal is put to the borrower.

### 4.8 Who will pay for the amendment of legacy LIBOR loan agreements?

Facility agreements generally provide that if a borrower requests an amendment to the loan terms, it must pay the reasonably incurred costs of the lender (on a bilateral transaction) or agent (on a syndicated transaction) in connection with that amendment. As a result, lenders and agents rarely have to pay for amendment costs – loan terms are usually only ever amended at the request of the borrower. However, repapering lenders' legacy LIBOR loans is likely to be an exception – it is more likely that lenders will instigate this process (see above).

The terms of some recent loans do specifically require the borrower to pay for the lender's costs in connection with LIBOR-related amendments, regardless of who instigated the amendment (see paragraph 2.6). However, this is the exception.

Otherwise, if a lender were determined that its borrower should pay for the lender's costs, it potentially has some commercial leverage to engineer this. It could point out that if the loan terms are not amended, the borrower is likely to have to pay the lender's cost of funds plus margin after LIBOR is discontinued (see paragraph 4.1).

It is too early to say how lenders will approach this. However, most banks are treating the amendment of their large legacy LIBOR books as a regulatory-driven project, not unlike ring-fencing, EMIR and MiFID2. It is quite possible that, as with those other project types, banks will not seek to pass on their costs to their customers.

### 4.9 If a legacy LIBOR loan is subject to interest rate hedging, will that hedging need to be amended at the same time as the loan terms?

Yes, in order to ensure that the borrower (and lender(s)) benefit from a true hedge of interest rate risk, the terms of the hedging will need to be amended so that the floating rate element in it is consistent with the amended floating rate in the loan.

### 4.10 Can finance-linked hedging terms be amended by using the ISDA Protocol and Hard-Wired Fallbacks?

For background information on ISDA's work on fallbacks and related Protocol, see paragraph 1.6. Our view is that these mechanisms are not suitable for amending finance-linked hedging terms for two main reasons:

- the Hard-Wired Fallbacks in the updated 2006 ISDA Definitions will only take effect
  following specified "Index Cessation Events" (including, in the case of LIBOR, the
  publication of a non-representativeness statement). Huge numbers of hedged legacy
  LIBOR loan terms will be amended at various times between now and the end of 2021.
  The parties will need to effect the amendment of the hedging terms at the same time; and
- for each LIBOR currency and tenor the fallback provided for in the updated 2006 ISDA
  Definitions will comprise a standard RFR-based rate plus a standard credit adjustment
  spread. This will not always correspond to the rate replacing LIBOR when a legacy
  LIBOR loan is amended<sup>8</sup>.

We therefore anticipate that parties to legacy finance-linked hedging transactions will need to amend their terms manually, at the same time as amending the legacy LIBOR loan terms to which the hedging relates.

### 4.11 What conduct and litigation risk issues should lenders consider when amending legacy LIBOR loans?

The specific conduct obligations of a lender will depend on the jurisdiction(s) in which it is incorporated or operating. Regulated entities in the UK should, in particular, note the FCA's Questions and answers for firms about conduct risk during LIBOR transition, published in November 2019. In relation to a lender's engagement with its corporate borrowers, we consider the following to be the key litigation risks:

- Exercising contractual discretions. It is anticipated that most commercial legacy LIBOR loans with a tenor beyond 2021 will transition to an RFR-based rate by amendment agreement. However, in some legacy LIBOR loans that transition process may involve the lender, agent or other finance party exercising a discretion. For example, if a loan has a Hard-Wired Fallback or gives the lender a unilateral right to amend the terms following certain trigger events, the lender may be responsible for adjusting the margin or incorporating a credit adjustment spread to account for the difference between LIBOR and the replacement rate. Where a party to an English law contract exercises a discretion of this nature, it is generally under an obligation not to exercise that discretion irrationally, capriciously or arbitrarily (sometimes referred to as a "Braganza duty"). Similar implied duties may apply under other laws. One would not expect a lender to fail to meet this obligation, but lenders should keep clear records of their decision-making processes before exercising contractual discretions of this nature.
- Avoiding assumption of an advisory role. Across all lending products, lenders will need to
  engage with their customers to explain how they propose to amend existing loan terms to
  address the risk of LIBOR discontinuation. However, it is important that lenders avoid
  creating an advisory relationship with their borrowers. For example, in product areas
  where compounded RFRs are impractical (see paragraph 3.10) there may be different

<sup>&</sup>lt;sup>8</sup> For example, ISDA definitions currently provide for the calculation of compounded RFRs on the basis of a two (rather than a five) business day look-back period and with an observation shift. However, we understand ISDA is working on alternative rate options to make it easier for parties to align loan and hedging methodologies.

approaches to replacing LIBOR across the market for that product. Where that is the case, if a lender "recommends" a specific option to a customer, it may incur a duty to the client in respect of that option's suitability to the client. Lenders should make clear that borrowers are responsible for taking their own decisions, particularly where those customers do not have their own legal counsel.

## Appendix – "Lag" method v. "observation shift" method – a worked example

For background information about the lag and observation shift methods, see paragraph 3.6 above. Please note that in the worked example below, compounded interest is calculated on a "cumulative" basis (see paragraph 3.7 above).

#### **Scenario**

- Sterling loan
- Interest rate = compounded average in arrear SONIA
- Two week interest period from 10 to 24 April
- Five business day "look-back" between interest period and observation period

### SONIA rates during and immediately before interest period

Day/Date	SONIA	Interest Period <sup>9</sup>	Observation Period <sup>10</sup>
Monday, 1 April	a%		
Tuesday, 2 April	b%		
Wednesday, 3 April	с%		
Thursday, 4 April	d%		
Friday, 5 April	e%		
Saturday, 6 April	No rate – weekend		
Sunday, 7 April	No rate – weekend		
Monday, 8 April	f%		
Tuesday, 9 April	g%		
Wednesday, 10 April	h%		
Thursday, 11 April	i%		
Friday, 12 April	j%		
Saturday, 13 April	No rate – weekend		
Sunday, 14 April	No rate – weekend		
Monday, 15 April	k%		
Tuesday, 16 April	1%		Look-back business day 5
Wednesday, 17 April	m%		Look-back business day 4
Thursday, 18 April	n%		Look-back business day 3
Friday, 19 April	0%		Look-back business day 2
Saturday, 20 April	No rate – weekend		Non-business day
Sunday, 21 April	No rate – weekend		Non-business day
Monday, 22 April	No rate – bank holiday		Non-business day
Tuesday, 23 April	p%		Look-back business day 1
Wednesday, 24 April	q%		
Thursday 25 April	r%		
Friday 26 April	s%		

<sup>&</sup>lt;sup>9</sup> The days in an interest period are counted by the number of "overnights". So a 14-day interest period such as this straddles 15 days.

<sup>&</sup>lt;sup>10</sup> An observation period always has the same number of business days as the interest period to which it relates (in this case, nine). It may have a different number of calendar days (as here). Where there is a five business day "look-back", the observation period ends on "but excludes" the date five business days before the end of the interest period. Five business days before the end of this interest period is Tuesday 16 April, so the observation period ends on Monday 15 April.

### Calculation of interest (i) using the lag method

#### Formula for calculation of interest

$$\left[ \prod_{i=1}^{d_b} \left( 1 + \frac{SONIA_{i-5LBD} \times n_i}{365} \right) - 1 \right] \times \frac{365}{d_c}$$

#### **Extract from definitions**

i = a series of whole numbers from to one to d<sub>b</sub>, each representing the relevant London Banking Day in chronological order from, and including, the first London Banking Day in the <u>relevant Interest Period</u>. [5 BD lag addressed through the formula]

### Calculation of interest (using SONIA rates shown on previous page)

$$\left[\left(1+\frac{0.0c}{365}\right)\left(1+\frac{0.0d}{365}\right)\left(1+\frac{0.0e\ x\ 3}{365}\right)\left(1+\frac{0.0f}{365}\right)\left(1+\frac{0.0g}{365}\right)\left(1+\frac{0.0h}{365}\right)\left(1+\frac{0.0i}{365}\right)\left(1+\frac{0.0j\ x}{365}\right)\left(1+\frac{0.0k}{365}\right)-1\right]x$$

Number of calendar days in Interest Period (see footnote 4 on previous page)

### Calculation of interest (ii) using the observation shift method

#### Formula for calculation of interest

$$\left[\prod_{i=1}^{d_b} \left(1 + \frac{SONIA_i \times n_i}{365}\right) - 1\right] \times \frac{365}{d_c}$$

With the lag method, SONIA on 12 April (j%) gets weighting of x4, based on the number of days between 19 April (5BDs ahead) and the next day SONIA is published (19<sup>th</sup>, 20<sup>th</sup>, 21<sup>st</sup>, 22<sup>nd</sup>).

With the observation shift method, SONIA on 12 April gets weighting of x3, based on the number of days between 12 April and the next day SONIA is published (12th, 13th, 14th)

#### **Extract from definitions**

i = a series of whole numbers from one to d₀, each representing the relevant London Banking Day in chronological order from, and including, the first London Banking Day in the <u>relevant Observation</u>

<u>Period.</u>

[5 BD shift addressed through the definitions.]

**Observation Period** = the period from and including the date falling five London Banking Days prior to the first day of the relevant Interest Period...and ending on, but excluding, the date falling five London Banking Days prior to the Interest Payment Date for such Interest Period.

#### Calculation of interest (using SONIA rates shown on previous page)

$$\left[\left(1+\frac{0.0c}{365}\right)\left(1+\frac{0.0d}{365}\right)\left(1+\frac{0.0e \times 3}{365}\right)\left(1+\frac{0.0f}{365}\right)\left(1+\frac{0.0g}{365}\right)\left(1+\frac{0.0h}{365}\right)\left(1+\frac{0.0i}{365}\right)\left(1+\frac{0.0j \times 3}{365}\right)\left(1+\frac{0.0k}{365}\right)-1\right]x$$

Number of calendar days in Observation Period (see footnote 4 on previous page)

