Basel Committee on Banking Supervision

NSF
Net stable funding ratio

The net stable funding ratio requires banks to maintain a stable funding profile in relation to the composition of their assets and off-balance-sheet activities.
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NSF10
Definitions and applications

This chapter describes the scope of application for the NSFR calculation and defines the main terms.

Version effective as of 15 Dec 2019

First version in the format of the consolidated framework.
Definitions

10.1 The net stable funding ratio (NSFR) consists primarily of internationally agreed-upon definitions and calibrations. Some elements, however, remain subject to national discretion to reflect jurisdiction-specific conditions. In these cases, national discretion should be explicit and clearly outlined in the regulations of each jurisdiction.

10.2 Unless otherwise specified, the NSFR definitions mirror those in the liquidity coverage ratio (LCR) standard, set out in LCR, and the liquidity monitoring metrics, set out in SRP50. All references to LCR definitions in the NSFR refer to the definitions in the LCR standard published by the Basel Committee. Supervisors who have chosen to implement a more stringent definition in their domestic LCR rules than those set out in the Basel Committee LCR standard have discretion over whether to apply this stricter definition for the purposes of implementing the NSFR requirements in their jurisdiction.

10.3 In particular, and consistent with LCR40.42 and NSF10.1, banks, securities firms, insurance companies, fiduciaries (defined in this context as a legal entity that is authorised to manage assets on behalf of a third party, including asset management entities such as pension funds and other collective investment vehicles), and beneficiaries (defined in this context as a legal entity that receives, or may become eligible to receive, benefits under a will, insurance policy, retirement plan, annuity, trust, or other contract) are considered as financial institutions for the application of the NSFR standard.

Scope of application

10.4 The application of the NSFR requirement in this standard follows the scope of application set out in SCO10. The NSFR must be applied to all internationally active banks on a consolidated basis, but may be used for other banks and on any subset of entities of internationally active banks as well to ensure greater consistency and a level playing field between domestic and cross-border banks.

10.5 Regardless of the scope of application of the NSFR, in line with Principle 6 as outlined in the Principles for Sound Liquidity Risk Management and Supervision, a bank should actively monitor and control liquidity risk exposures and funding needs at the level of individual legal entities, foreign branches and subsidiaries, and the group as a whole, taking into account legal, regulatory and operational limitations to the transferability of liquidity.
Exclusions from the NSFR calculation

10.6 A limited national discretion allows derivative transactions with central banks arising from the latter’s short-term monetary policy and liquidity operations to be excluded from the reporting bank’s NSFR computation and to offset unrealised capital gains and losses related to these derivative transactions from available stable funding. These transactions include foreign exchange derivatives such as foreign exchange swaps, and must have a maturity of six months or less at inception. As such, the bank’s NSFR would not change due to entering a short-term derivative transaction with its central bank for the purpose of short-term monetary policy and liquidity operations.
NSF20

Calculation and reporting

This chapter contains the minimum NSFR requirement and associated regulatory reporting.

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15 Dec 2019

First version in format of consolidated framework.
20.1 The net stable funding ratio (NSFR) requires banks to maintain a stable funding profile in relation to the composition of their assets and off-balance sheet activities. A sustainable funding structure is intended to reduce the likelihood that disruptions to a bank’s regular sources of funding will erode its liquidity position in a way that would increase the risk of its failure and potentially lead to broader systemic stress. The NSFR limits overreliance on short-term wholesale funding, encourages better assessment of funding risk across all on- and off-balance sheet items, and promotes funding stability.

20.2 The NSFR is defined as the amount of available stable funding relative to the amount of required stable funding. This ratio should be equal to at least 100% on an ongoing basis. “Available stable funding” is defined as the portion of capital and liabilities expected to be reliable over the one-year time horizon considered by the NSFR. The amount of stable funding required (“required stable funding”) of an institution is a function of the liquidity characteristics and residual maturities of the various assets held by that institution as well as those of its off-balance sheet exposures.

\[
\frac{\text{Available amount of stable funding}}{\text{Required amount of stable funding}} \geq 100\%
\]

20.3 The NSFR must be reported at least quarterly. The time lag in reporting should not surpass the allowable time lag under the Basel capital standards.
NSF30

Available and required stable funding

This chapter describes how to calculate the amount of available stable funding provided by a bank's liabilities and equity and how to calculate the amount of required stable funding for a bank's assets and off-balance-sheet activities.

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First version in the format of the consolidated framework.
Introduction

30.1 The amounts of available stable funding (ASF) and required stable funding (RSF) specified in the standard are calibrated to reflect the presumed degree of stability of liabilities and liquidity of assets.

30.2 The calibration reflects the stability of liabilities across two dimensions:

1. Funding tenor: the net stable funding ratio (NSFR) is generally calibrated such that longer-term liabilities are assumed to be more stable than short-term liabilities.

2. Funding type and counterparty: the NSFR is calibrated under the assumption that short-term (maturing in less than one year) deposits provided by retail customers and funding provided by small business customers are behaviourally more stable than wholesale funding of the same maturity from other counterparties.

30.3 In determining the appropriate amounts of required stable funding for various assets, the following criteria were taken into consideration, recognising the potential trade-offs between these criteria:

1. Resilient credit creation: the NSFR requires stable funding for some proportion of lending to the real economy in order to ensure the continuity of this type of intermediation.

2. Bank behaviour: the NSFR is calibrated under the assumption that banks may seek to roll over a significant proportion of maturing loans to preserve customer relationships.

3. Asset tenor: the NSFR assumes that some short-dated assets (maturing in less than one year) require a smaller proportion of stable funding because banks would be able to allow some proportion of those assets to mature instead of rolling them over.

4. Asset quality and liquidity value: the NSFR assumes that unencumbered, high-quality assets that can be securitised or traded, and thus can be readily used as collateral to secure additional funding or sold in the market, do not need to be wholly financed with stable funding.

30.4 Additional stable funding sources are also required to support at least a small portion of the potential calls on liquidity arising from off-balance sheet commitments and contingent funding obligations.
Definition of available stable funding

30.5 The amount of ASF is measured based on the broad characteristics of the relative stability of an institution’s funding sources, including the contractual maturity of its liabilities and the differences in the propensity of different types of funding providers to withdraw their funding.

30.6 The amount of ASF must be calculated by first assigning the carrying value of an institution’s capital and liabilities to one of five categories as presented below. The amount assigned to each category is then multiplied by an ASF factor, and the total ASF is the sum of the weighted amounts. Carrying value represents the amount at which a liability or equity instrument is recorded before the application of any regulatory deductions, filters or other adjustments. As noted in NSF10.2, definitions mirror those outlined in the LCR standard, unless otherwise specified.

30.7 When determining the maturity of an equity or liability instrument, the bank must assume investors redeem call options at the earliest possible date. For funding with options exercisable at the bank’s discretion, supervisors should take into account reputational factors that may limit a bank’s ability not to exercise the option. In particular, where the market expects certain liabilities to be redeemed before their legal final maturity date, banks and supervisors should assume such behaviour for the purpose of the NSFR and include these liabilities in the corresponding ASF category. Along the same lines, when calculating the NSFR, options by a bank to extend funding maturity of its obligations (e.g., soft-bullet structures) should generally be assumed not to be exercised when there may be reputational concerns. For long-dated liabilities, only the portion of cash flows falling at or beyond the six-month and one-year time horizons should be treated as having an effective residual maturity of six months or more and one year or more, respectively.

Footnotes

1 This could reflect a case where a bank may imply that it would be subject to funding risk if it did not exercise an option on its own funding.

30.8 Derivative liabilities are calculated first based on the replacement cost for derivative contracts (obtained by marking to market) where the contract has a negative value. When an eligible bilateral netting contract is in place that meets the conditions as specified in CRE52.7, the replacement cost for the set of derivative exposures covered by the contract must be the net replacement cost.
30.9 In calculating NSFR derivative liabilities, collateral posted in the form of variation margin in connection with derivative contracts, regardless of the asset type, must be deducted from the negative replacement cost amount.\(^2\)

Footnotes
\(^2\) NSFR derivative liabilities = (derivative liabilities) – (total collateral posted as variation margin on derivative liabilities). To the extent that the bank’s accounting framework reflects on balance sheet, in connection with a derivative contract, an asset associated with collateral posted as variation margin that is deducted from the replacement cost amount for purposes of the NSFR, that asset should not be included in the calculation of a bank’s RSF to avoid any double-counting.

30.10 Liabilities and capital instruments receiving a 100% ASF factor comprise:

1. the total amount of regulatory capital, before the application of capital deductions, as defined in CAP10,\(^3\) excluding the proportion of Tier 2 instruments with residual maturity of less than one year;

2. the total amount of any capital instrument not included in NSF30.10(1) that has an effective residual maturity of one year or more, but excluding any instruments with explicit or embedded options that, if exercised, would reduce the expected maturity to less than one year;

3. the total amount of secured and unsecured borrowings and liabilities (including term deposits) with effective residual maturities of one year or more. Cash flows falling below the one-year horizon but arising from liabilities with a final maturity greater than one year do not qualify for the 100% ASF factor; and

4. retail term deposits maturing over one year that cannot be withdrawn early without significant penalty.

Footnotes
\(^2\) Capital instruments reported here should meet all requirements outlined in CAP10, and should only include amounts after transitional arrangements in CAP90 have expired under fully implemented Basel III standards (ie as in 2022).
30.11 Liabilities receiving a 95% ASF factor comprise “stable” (as defined in LCR40.7 to LCR40.12) non-maturity (demand) deposits and/or term deposits with residual maturities of less than one year, and/or term deposits with residual maturities greater than one year that can be withdrawn early without a significant penalty, provided by retail and small business customers.  

Footnotes

4 Retail deposits are defined in LCR40.5. Small business customers are defined in LCR40.23 and LCR40.24.

30.12 Liabilities receiving a 90% ASF factor comprise “less stable” (as defined in LCR40.13 to LCR40.15) non-maturity (demand) deposits and/or term deposits with residual maturities of less than one year, and/or term deposits with residual maturities greater than one year that can be withdrawn early without a significant penalty, provided by retail and small business customers.  

Footnotes

5 The treatment of retail and small business deposits follows the definitions provided in the LCR standard and not the run-off rates applied to them in a particular jurisdiction. Thus, retail and small business deposits that are subject to higher (than 5% and 10%) outflow assumptions than those for stable and less stable deposits in the LCR could be treated as stable and less stable, unless a given jurisdiction chooses to apply a more conservative treatment (lower ASF).

30.13 Liabilities receiving a 50% ASF factor comprise:

(1) funding (secured and unsecured) with a residual maturity of less than one year provided by non-financial corporate customers;

(2) operational deposits (as defined in LCR40.26 to LCR40.36);

(3) funding with residual maturity of less than one year from sovereigns, public sector entities (PSEs), and multilateral and national development banks; and

(4) other funding (secured and unsecured) not included in the categories above with residual maturity between six months to less than one year, including funding from central banks and financial institutions.
Footnotes

5 Banks should refer to guidance from their supervisors to determine if any national development banks in their jurisdictions or abroad can qualify for this treatment. These entities would likely include banks that provide financing for development projects. Contrary to multilateral development banks, whose membership and operation involve several countries, national development banks typically belong to or are controlled by the state in which they are incorporated.

30.14 Liabilities receiving a 0% ASF factor comprise:

(1) all other liabilities and equity categories not included in the above categories, including other funding with residual maturity of less than six months from central banks and financial institutions; 7

(2) other liabilities without a stated maturity. This category must include short positions and open maturity positions that are not otherwise captured under NSF30.10 to NSF30.13. Two exceptions may be recognised for liabilities without a stated maturity, which would then be assigned either a 100% ASF factor if the effective maturity is one year or greater, or 50%, if the effective maturity is between six months and less than one year:

(a) first, deferred tax liabilities, which should be treated according to the nearest possible date on which such liabilities could be realised; and

(b) second, minority interest, which should be treated according to the term of the instrument, usually in perpetuity.

(3) NSFR derivative liabilities as calculated according to NSF30.8 and NSF30.9 net of NSFR derivative assets as calculated according to NSF30.23 and NSF30.24, if NSFR derivative liabilities are greater than NSFR derivative assets; 8 and

(4) “trade date” payables arising from purchases of financial instruments, foreign currencies and commodities that

(a) are expected to settle within the standard settlement cycle or period that is customary for the relevant exchange or type of transaction, or

(b) have failed to, but are still expected to, settle.
Definition of required stable funding for assets and off-balance sheet exposures

30.15 The amount of RSF is measured based on the broad characteristics of the liquidity risk profile of an institution’s assets and off-balance-sheet exposures. The amount of RSF is calculated by first assigning the carrying value of an institution’s assets to the categories listed below. The carrying value of an asset item should generally be recorded by following its accounting value, i.e., net of specific provisions, in line with CRE20.1 and the requirements for on-balance sheet, non-derivative assets in LEV30. The amount assigned to each category is then multiplied by its associated RSF factor, and the total RSF is the sum of the weighted amounts added to the amount of off-balance-sheet activity (or potential liquidity exposure) multiplied by its associated RSF factor. As noted in NSF10.2, definitions mirror those outlined in the LCR standard, unless otherwise specified.9 Regardless of whether a bank uses the internal ratings-based (IRB) approach, the standardised approach risk weights in CRE20 must be used to determine the NSFR treatment.
For the purposes of calculating the NSFR, high-quality liquid assets (HQLA) are defined as all HQLA without regard to Liquidity Coverage Ratio (LCR) operational requirements and LCR caps on Level 2 and Level 2B assets that may otherwise limit the ability of some HQLA to be included as eligible HQLA in calculation of the LCR. HQLA are defined in LCR30. Operational requirements are specified in LCR30.13 to LCR30.28.

30.16 Unless explicitly stated otherwise in the NSFR standard, assets must be allocated to maturity buckets according to their contractual residual maturity. However, this should take into account embedded optionality, such as put or call options, which may affect the actual maturity date as described in NSF30.7 and NSF30.17. The RSF factors assigned to various types of assets are intended to approximate the amount of a particular asset that would have to be funded, either because it will be rolled over, or because it could not be monetised through sale or used as collateral in a secured borrowing transaction over the course of one year without significant expense. Under the standard, such amounts must be supported by stable funding.

30.17 Assets must be allocated to the appropriate RSF factor based on their residual maturity or liquidity value. When determining the maturity of an instrument, the bank must assume investors exercise any option to extend maturity. For assets with options to extend exercisable at the bank’s discretion, supervisors should take into account reputational factors that may limit a bank’s ability not to exercise the option. In particular, where the market expects certain assets to be extended in their maturity, banks and supervisors should assume such behaviour for the purpose of the NSFR and include these assets in the corresponding RSF category. For amortising loans (or other principal repayment claims), the portion that comes due within the one-year horizon may be treated in the less-than-one-year residual maturity category. Unencumbered loans without a stated final maturity, even where the borrower may repay the loan in full and without penalty charges at the next rate reset date, are deemed to have an effective residual maturity period of more than one year and must be given either a 65% or 85% RSF factor depending on their risk weights under the standardised approach for credit risk. If there is a contractual provision with a review date at which the bank may determine whether a given facility or loan is renewed or not, supervisors may authorise, on a case by case basis, banks to use the next review date as the maturity date. In doing so, supervisors must consider the incentives created and the actual likelihood that such facilities/loans will not be renewed. In particular, options by a bank not to renew a given facility should generally be assumed not to be exercised when there may be reputational concerns.
In the case of exceptional central bank liquidity absorbing operations, claims on central banks may receive a reduced RSF factor. For those operations with a residual maturity equal to or greater than six months, the RSF factor must not be lower than 5%. When applying a reduced RSF factor, supervisors need to closely monitor the ongoing impact on banks’ stable funding positions arising from the reduced requirement and take appropriate measures as needed. Also, as further specified in NSF30.20, assets that are provided as collateral for exceptional central bank liquidity providing operations may receive a reduced RSF factor which must not be lower than the RSF factor applied to the equivalent asset that is unencumbered. In both cases, supervisors should discuss and agree on the appropriate RSF factor with the relevant central bank.

For purposes of determining its required stable funding, an institution must include financial instruments, foreign currencies and commodities for which a purchase order has been executed, and exclude financial instruments, foreign currencies and commodities for which a sales order has been executed, even if such transactions have not been reflected in the balance sheet under a settlement-date accounting model, provided that:

1. such transactions are not reflected as derivatives or secured financing transactions in the institution’s balance sheet, and
2. the effects of such transactions will be reflected in the institution’s balance sheet when settled.

Assets on the balance sheet that are encumbered for one year or more must receive a 100% RSF factor. Assets encumbered for a period of between six months and less than one year that would, if unencumbered, receive an RSF factor lower than or equal to 50% must receive a 50% RSF factor. Assets encumbered for between six months and less than one year that would, if unencumbered, receive an RSF factor higher than 50% must retain that higher RSF factor. Where assets have less than six months remaining in the encumbrance period, those assets may receive the same RSF factor as an equivalent asset that is unencumbered. In addition, for the purposes of calculating the NSFR, assets that are encumbered for exceptional central bank liquidity operations may receive a reduced RSF factor. Supervisors should discuss and agree on the appropriate RSF factor with the relevant central bank, which must not be lower than the RSF factor applied to the equivalent asset that is unencumbered.
Footnotes

11 Encumbered assets include but are not limited to assets backing securities or covered bonds and assets pledged in securities financing transactions or collateral swaps. “Unencumbered” is defined in LCR30.

12 In general, exceptional central bank liquidity operations are considered to be non-standard, temporary operations conducted by the central bank in order to achieve its mandate in a period of market-wide financial stress and/or exceptional macroeconomic challenges.

30.21 For secured funding arrangements, use of balance sheet and accounting treatments should generally result in banks excluding, from their assets, securities which they have borrowed in securities financing transactions (such as reverse repos and collateral swaps) where they do not have beneficial ownership. In contrast, banks must include securities they have lent in securities financing transactions where they retain beneficial ownership. Banks should also not include any securities they have received through collateral swaps if those securities do not appear on their balance sheets. Where banks have encumbered securities in repos or other securities financing transactions, but have retained beneficial ownership and those assets remain on the bank’s balance sheet, the bank must allocate such securities to the appropriate RSF category.

30.22 Amounts receivable and payable under these securities financing transactions should generally be reported on a gross basis, meaning that the gross amount of such receivables and payables should be reported on the RSF side and ASF side, respectively. The only exception is that securities financing transactions with a single counterparty may be measured on a net basis when calculating the NSFR, provided that the netting conditions for securities financing transactions set out in LEV30 are met.

30.23 Derivative assets are calculated first based on the replacement cost for derivative contracts (obtained by marking to market) where the contract has a positive value. When an eligible bilateral netting contract is in place that meets the conditions as specified in CRE52.7, the replacement cost for the set of derivative exposures covered by the contract must be the net replacement cost.
In calculating NSFR derivative assets, collateral received in connection with derivative contracts must not offset the positive replacement cost amount, regardless of whether or not netting is permitted under the bank’s operative accounting or risk-based framework, unless it is received in the form of cash variation margin and meets the conditions as specified in LEV30 for the cash portion of variation margin exchanged between counterparties to be viewed as a form of pre-settlement payment. Any remaining balance sheet liability associated with variation margin received that does not meet the criteria above or initial margin received may not offset derivative assets and should be assigned a 0% ASF factor.

Footnotes
13 \[ NSFR \text{ derivative assets} = (\text{derivative assets}) - (\text{cash collateral received as variation margin on derivative assets}) \]

30.25 Assets assigned a 0% RSF factor comprise:

(1) coins and banknotes immediately available to meet obligations;

(2) all central bank reserves (including required reserves and excess reserves); 14

(3) all claims\(^{15}\) on central banks with residual maturities of less than six months; and

(4) “trade date” receivables arising from sales of financial instruments, foreign currencies and commodities that

(a) are expected to settle within the standard settlement cycle or period that is customary for the relevant exchange or type of transaction, or

(b) have failed to, but are still expected to, settle.
Supervisors may discuss and agree with the relevant central bank on the RSF factor to be assigned to required reserves, based in particular on consideration of whether or not the reserve requirement must be satisfied at all times and thus the extent to which reserve requirements in that jurisdiction exist on a longer-term horizon and therefore require associated stable funding.

The term “claims” is broader than loans. The term “claims”, for example, also includes central bank bills and the asset account created on banks’ balance sheets by entering into repo transactions with central banks.

Assets assigned a 5% RSF factor comprise unencumbered Level 1 assets as defined in LCR30.41, excluding assets receiving a 0% RSF as specified above, and including:

1. Marketable securities representing claims on or guaranteed by sovereigns, central banks, PSEs, the Bank for International Settlements, the International Monetary Fund, the European Central Bank and the European Community, or multilateral development banks that are assigned a 0% risk weight under CRE20; and

2. Certain non-0% risk-weighted sovereign or central bank debt securities (excluding claims on central banks with maturities of less than six months, which must receive a 0% RSF) as specified in the LCR standard.

Assets assigned a 10% RSF factor comprise unencumbered loans to financial institutions with residual maturities of less than six months, where the loan is secured against Level 1 assets as defined in LCR30.41, and where the bank has the ability to freely rehypothecate the received collateral for the life of the loan.

Assets assigned a 15% RSF factor comprise:

1. Unencumbered Level 2A assets as defined in LCR30.43, including:

   a. Marketable securities representing claims on or guaranteed by sovereigns, central banks, PSEs or multilateral development banks that are assigned a 20% risk weight under CRE20; and

   b. Corporate debt securities (including commercial paper) and covered bonds with a credit rating equal or equivalent to at least AA–;
(2) all other unencumbered loans to financial institutions with residual maturities of less than six months not included in NSF30.27.

30.29 Assets assigned a 50% RSF factor comprise:

(1) unencumbered Level 2B assets as defined and subject to the conditions set forth in LCR30.45, including:
   (a) residential mortgage-backed securities with a credit rating of at least AA;
   (b) corporate debt securities (including commercial paper) with a credit rating of between A+ and BBB–; and
   (c) exchange-traded common equity shares not issued by financial institutions or their affiliates;

(2) any HQLA as defined in the LCR that are encumbered for a period of between six months and less than one year;

(3) all loans to financial institutions and central banks with residual maturity of between six months and less than one year;

(4) deposits held at other financial institutions for operational purposes, as outlined in LCR40.26 to LCR40.36, that are subject to the 50% ASF factor in NSF30.13(2); and

(5) all other non-HQLA not included in the above categories that have a residual maturity of less than one year, for example, loans to non-financial corporate clients, loans to retail customers (ie natural persons) and small business customers, and loans to sovereigns, national development banks and PSEs.

30.30 Assets assigned a 65% RSF factor comprise:

(1) unencumbered residential mortgages with a residual maturity of one year or more that would qualify for a 35% or lower risk weight under CRE20; and

(2) other unencumbered loans, including loans to sovereigns, multilateral development banks, PSEs and national development banks, not included in the above categories, excluding loans to financial institutions, with a residual maturity of one year or more that would qualify for a 35% or lower risk weight under CRE20.

30.31 Assets assigned an 85% RSF factor comprise:
(1) cash, securities or other assets posted as initial margin for derivative contracts and cash or other assets provided to contribute to the default fund of a central counterparty (CCP), in both cases regardless of whether recorded on or off the balance sheet. Where securities or other assets posted as initial margin for derivative contracts would otherwise receive a higher RSF factor, they should retain that higher factor.

(2) other unencumbered performing loans that do not qualify for the 35% or lower risk weight under CRE20 and have residual maturities of one year or more, excluding loans to financial institutions;

(3) unencumbered securities with a remaining maturity of one year or more and exchange-traded equities, that are not in default and do not qualify as HQLA according to the LCR standard; and

(4) physical traded commodities, including gold.

Footnotes

16 Initial margin posted on behalf of a customer, where the bank provided a customer access to a third party (eg a CCP) for the purpose of clearing derivatives, where the transactions are executed in the name of the customer and the bank does not guarantee performance of the third party (eg the CCP), maybe exempt from this requirement.

17 Performing loans are considered to be those that are not past due for more than 90 days or otherwise classified as a defaulted exposure under CRE20.

30.32 Assets assigned a 100% RSF factor comprise:

(1) all assets that are encumbered for a period of one year or more;

(2) NSFR derivative assets as calculated according to NSF30.23 and NSF30.24 net of NSFR derivative liabilities as calculated according to NSF30.8 and NSF30.9, if NSFR derivative assets are greater than NSFR derivative liabilities;

(3) assets without a stated maturity not included in NSF30.32(1) and NSF30.32(2) (including non-maturity reverse repos unless banks can demonstrate to supervisors that the non-maturity reverse repo would effectively mature in less than one year);
(4) all other assets not included in the above categories, including non-performing loans, loans to financial institutions with a residual maturity of one year or more, non-exchange-traded equities, fixed assets, items deducted from regulatory capital, retained interest, insurance assets, subsidiary interests and defaulted securities; and

(5) 5% to 20% (depending on national discretion) of all derivative liabilities (ie negative replacement cost amounts) as calculated according to NSF30.8 to NSF30.9 (before deducting variation margin posted).

**Footnotes**

18. \[ RSF = 100\% \times \text{MAX} \left( (\text{NSFR derivative assets} - \text{NSFR derivative liabilities}), 0 \right). \]

**30.33** Many potential off-balance sheet liquidity exposures require little direct or immediate funding but can lead to significant liquidity drains over a longer time horizon. The NSFR assigns an RSF factor to various off-balance sheet activities in order to ensure that institutions hold stable funding for the portion of off-balance sheet exposures that may be expected to require funding within a one-year horizon.

**30.34** Consistent with the LCR, the NSFR identifies off-balance-sheet exposure categories based broadly on whether the commitment is a credit or liquidity facility or some other contingent funding obligation. Table 1 identifies the specific types of off-balance-sheet exposures to be assigned to each off-balance sheet category and their associated RSF factor.
### Table 1

<table>
<thead>
<tr>
<th>RSF factor</th>
<th>RSF category</th>
</tr>
</thead>
<tbody>
<tr>
<td>5% of the currently undrawn portion</td>
<td>Irrevocable and conditionally revocable credit and liquidity facilities to any client</td>
</tr>
<tr>
<td>National supervisors may specify the RSF factors based on their national circumstances</td>
<td>Other contingent funding obligations, including products and instruments such as unconditionally revocable credit and liquidity facilities; trade finance-related obligations (including guarantees and letters of credit); guarantees and letters of credit unrelated to trade finance obligations; and non-contractual obligations (such as potential requests for debt repurchases of the bank’s own debt or that of related conduits, securities investment vehicles and other such financing facilities, structured products where customers anticipate ready marketability, such as adjustable rate notes and variable rate demand notes or managed funds that are marketed with the objective of maintaining a stable value).</td>
</tr>
</tbody>
</table>

### Interdependent assets and liabilities

**30.35** National supervisors have discretion in limited circumstances to determine whether certain asset and liability items, on the basis of contractual arrangements, are interdependent such that the liability cannot fall due while the asset remains on the balance sheet, the principal payment flows from the asset cannot be used for something other than repaying the liability, and the liability cannot be used to fund other assets. For interdependent items, supervisors may adjust RSF and ASF factors so that they are both 0%, subject to the following criteria:

1. The individual interdependent asset and liability items must be clearly identifiable.
2. The maturity and principal amount of both the liability and its interdependent asset must be the same.
3. The bank is acting solely as a pass-through unit to channel the funding received (the interdependent liability) into the corresponding interdependent asset.
4. The counterparties for each pair of interdependent liabilities and assets must not be the same.
30.36 Before exercising this discretion, supervisors should consider whether perverse incentives or unintended consequences are being created.

30.37 The instances where supervisors will exercise the discretion to apply this exceptional treatment should be transparent, explicit and clearly outlined in the regulations of each jurisdiction, to provide clarity both within the jurisdiction and internationally.
NSF99

Definitions and applications

This chapter summarises the available and required stable funding factors, as well as giving guidance on the treatment of specific instruments.

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Summary of available stable funding and required stable funding factors

99.1 Table 1 below summarises the components of each of the available stable funding (ASF) categories and the associated maximum ASF factor to be applied in calculating an institution’s total amount of available stable funding under the standard.
### Summary of liability categories and associated ASF factors

#### Table 1

<table>
<thead>
<tr>
<th>ASF factor</th>
<th>Components of ASF category</th>
</tr>
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| 100%       | Total regulatory capital as in [NSF30.10](#) (excluding Tier 2 instruments with residual maturity of less than one year)  
Other capital instruments and liabilities with effective residual maturity of one year or more |
| 95%        | Stable non-maturity (demand) deposits and term deposits with residual maturity of less than one year provided by retail and small business customers |
| 90%        | Less stable non-maturity (demand) deposits and term deposits with residual maturity of less than one year provided by retail and small business customers |
| 50%        | Funding with residual maturity of less than one year provided by non-financial corporate customers  
Operational deposits  
Funding with residual maturity of less than one year from sovereigns, public sector entities (PSEs) and multilateral and national development banks  
Other funding with residual maturity between six months and less than one year not included in the above categories, including funding provided by central banks and financial institutions |
| 0%         | All other liabilities and equity not included in the above categories, including liabilities without a stated maturity (with a specific treatment for deferred tax liabilities and minority interests)  
Net stable funding ratio (NSFR) derivative liabilities net of NSFR derivative assets if NSFR derivative liabilities are greater than NSFR derivative assets  
“Trade date” payables arising from purchases of financial instruments, foreign currencies and commodities  
Liabilities with interdependent assets as in [NSF30.35](#), subject to national discretion |

#### 99.2

Table 2 summarises the specific types of assets to be assigned to each asset category and their associated required stable funding (RSF) factor.
## Summary of asset categories and associated RSF factors

### Table 2

<table>
<thead>
<tr>
<th>RSF factor</th>
<th>Components of RSF category</th>
</tr>
</thead>
<tbody>
<tr>
<td>0%</td>
<td>Coins and banknotes</td>
</tr>
<tr>
<td></td>
<td>All central bank reserves</td>
</tr>
<tr>
<td></td>
<td>All claims on central banks with residual maturities of less than six months</td>
</tr>
<tr>
<td></td>
<td>“Trade date” receivables arising from sales of financial instruments, foreign currencies and commodities</td>
</tr>
<tr>
<td></td>
<td>Assets with interdependent liabilities as in NSF30.35, subject to national discretion</td>
</tr>
<tr>
<td>5%</td>
<td>Unencumbered Level 1 assets, excluding coins, banknotes and central bank reserves</td>
</tr>
<tr>
<td>10%</td>
<td>Unencumbered loans to financial institutions with residual maturities of less than six months, where the loan is secured against Level 1 assets as defined in LCR30.41, and where the bank has the ability to freely rehypothecate the received collateral for the life of the loan</td>
</tr>
<tr>
<td>15%</td>
<td>All other unencumbered loans to financial institutions with residual maturities of less than six months not included in the above categories</td>
</tr>
<tr>
<td></td>
<td>Unencumbered Level 2A assets</td>
</tr>
<tr>
<td>50%</td>
<td>Unencumbered Level 2B assets</td>
</tr>
<tr>
<td></td>
<td>High-quality liquid assets (HQLA) encumbered for a period of six months or more and less than one year</td>
</tr>
<tr>
<td></td>
<td>Loans to financial institutions and central banks with residual maturities between six months and less than one year</td>
</tr>
<tr>
<td></td>
<td>Deposits held at other financial institutions for operational purposes</td>
</tr>
<tr>
<td></td>
<td>All other assets not included in the above categories with residual maturity of less than one year, for example, loans to non-financial corporate clients, loans to retail and small business customers, and loans to sovereigns, national development banks and PSEs</td>
</tr>
<tr>
<td>65%</td>
<td>Unencumbered residential mortgages with a residual maturity of one year or more and with a risk weight of less than or equal to 35% under the Standardised Approach in CRE20</td>
</tr>
<tr>
<td></td>
<td>Other unencumbered loans, including loans to sovereigns, MDBs, PSEs and national development banks, not included in the above categories, excluding loans to financial institutions, with a residual maturity of one year</td>
</tr>
<tr>
<td>Percentage</td>
<td>Description</td>
</tr>
<tr>
<td>------------</td>
<td>-------------</td>
</tr>
<tr>
<td>85%</td>
<td>Cash, securities or other assets posted as initial margin for derivative contracts and cash or other assets provided to contribute to the default fund of a central counterparty. Other unencumbered performing loans with risk weights greater than 35% under the standardised approach in CRE20 and residual maturities of one year or more, excluding loans to financial institutions. Unencumbered securities that are not in default and do not qualify as HQLA with a remaining maturity of one year or more and exchange-traded equities. Physical traded commodities, including gold.</td>
</tr>
<tr>
<td>100%</td>
<td>All assets that are encumbered for a period of one year or more. NSFR derivative assets net of NSFR derivative liabilities if NSFR derivative assets are greater than NSFR derivative liabilities. 5% to 20% of derivative liabilities as calculated according to NSF30.8. Assets without a stated maturity (including non-maturity reverse repos unless banks can demonstrate to supervisors that the non-maturity reverse repo would effectively mature in less than one year). All other assets not included in the above categories, including non-performing loans, loans to financial institutions with a residual maturity of one year or more, non-exchange-traded equities, fixed assets, items deducted from regulatory capital, retained interest, insurance assets, subsidiary interests and defaulted securities.</td>
</tr>
</tbody>
</table>

99.3 Table 3 identifies the specific types of off-balance sheet exposures to be assigned to each off-balance sheet category and their associated RSF factor.
### Summary of off-balance sheet categories and associated RSF factors

<table>
<thead>
<tr>
<th>RSF factor</th>
<th>RSF category</th>
</tr>
</thead>
<tbody>
<tr>
<td>5% of the currently undrawn portion</td>
<td>Irrevocable and conditionally revocable credit and liquidity facilities to any client</td>
</tr>
</tbody>
</table>

National supervisors can specify the RSF factors based on their national circumstances for other contingent funding obligations, including products and instruments such as:

- Unconditionally revocable credit and liquidity facilities
- Trade finance-related obligations (including guarantees and letters of credit)
- Guarantees and letters of credit unrelated to trade finance obligations
- Non-contractual obligations such as:
  - potential requests for debt repurchases of the bank’s own debt or that of related conduits, securities investment vehicles and other such financing facilities
  - structured products where customers anticipate ready marketability, such as adjustable rate notes and variable rate demand notes (VRDNs)
  - managed funds that are marketed with the objective of maintaining a stable value

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**Guidance on the treatment of specific instruments**

99.4 Some loans are only partially secured and are therefore separated into secured and unsecured portions with different risk weights under the Basel capital framework. The specific characteristics of these portions of loans should be taken into account for the calculation of the NSFR: the secured and unsecured portions of a loan should each be treated according to its characteristics and assigned the corresponding RSF factor. If it is not possible to draw the distinction between the secured and unsecured part of the loan, the higher RSF factor must be applied to the whole loan.
99.5 Assets that are owned by banks, but segregated to satisfy statutory requirements for the protection of customer equity in margined trading accounts, must be reported in accordance with the underlying exposure, whether or not the segregation requirement is separately classified on a bank’s balance sheet.

However, those assets must also be treated according to NSF30.20. That is, they may be subject to a higher RSF depending on (the term of) encumbrance. The (term of) encumbrance should be determined by authorities, taking into account whether the institution can freely dispose or exchange such assets and the term of the liability to the bank’s customer(s) that generates the segregation requirement.

99.6 Non-operational deposits held at other financial institutions must be treated equivalently to loans to financial institutions, taking into account the term of the deposit.