HOW TO UNDERSTAND THE HARMONISED ANNEX?

Single Resolution Board

May 2020

DISCLAIMER AND LIST OF ABBREVIATIONS

IMPORTANT NOTICE:

The information and guidance provided in this document are intended to contribute to a better understanding of the Harmonised Annex. Certain unessential aspects of the calculation methodology adopted and the mathematical operations performed in this document may slightly differ from those adopted and performed in the corresponding steps under the SRB Calculation Tool. The figures provided in this document are for illustrative purpose only and do not correspond to the relevant numbers for the 2020 contributions.

This document is intended purely as a guidance tool – only the text of the applicable EU legislation has legal force and is liable to create rights and obligations for individuals. This guidance is not intended to be relied upon for purposes other than description, nor should be regarded as creating any enforceable right or expectation. The views expressed in this guidance shall not be construed as binding the Single Resolution Board and are without prejudice to the position that it might take, or has previously taken, in other contexts. Neither the Single Resolution Board nor any person acting on behalf of the Single Resolution Board may be held accountable for the use which might be made of the information included therein. As this guidance reflects the state of the art at the time of its drafting, it should be regarded as a 'living tool' and its content may be subject to modifications without notice.

List of abbreviations:

- CIR shall be read as Council Implementing Regulation (EU) 2015/81.
- DR shall be read as Commission Delegated Regulation (EU) 2015/63.
- MD stands for 2020 Master Decision and refers to the Decision of the Single Resolution Board of 15 April 2020 on the calculation of the 2020 ex-ante contributions to the Single Resolution Fund (SRB/ES/2020/24).

INTRODUCTION: TYPES OF HARMONISED ANNEXES (1/2)

A. Lump sum – small institutions paying a lump-sum contribution

2020 SRF Data Reporting Form	The contributions of these institutions are calculated in accordance with Article 10 of Commission Delegated Regulation 2015/63 ("DR"). In case an institution qualifies for lump-sum contribution, the field 2B2 in the 2020 SRF Data Reporting Form is prefilled with "Yes". These institutions need to fill in Tab 1 "General information" and sections A and B of Tab 2 "Basic annual contribution".					
2020 Master Decision	Please refer to section 5 "Calculation methodology", sub-section 5.3 "Lump-sum contributions for small institutions" in the 2020 Master Decision ("MD").					

B. Article 10(7) – institutions that have opted for the alternative calculation under Art. 10(7) DR							
2020 SRF Data Reporting Form	When an institution qualifies for lump-sum contribution, in accordance with Article 10(7) it can also opt for the calculation of an alternative contribution amount. In such case, institution needs to fill in "Yes" in field 2B3 in the 2020 SRF Data Reporting Form, and provide all necessary additional information in section C of Tab 2 "Basic annual contribution" and Tab 3 "Deductions".						
2020 Master Decision	Please refer to section 5 "Calculation methodology", sub-section 5.3 "Lump-sum contributions for small institutions" in the MD.						

INTRODUCTION: TYPES OF HARMONISED ANNEXES (2/2)

C. Basic - Mortgage credit ir activities	nstitutions financed by covered bonds and investment firms authorized to carry out only limited services and
2020 SRF Data Reporting Form	 When an institution is a mortgage credit institution financed by covered bonds¹ or an investment firm authorized to carry out only limited services and activities² fields 1C10 or 1C8, respectively, are filled with "Yes" in the 2020 SRF Data Reporting Form. In case their size does not allow them to qualify for lump-sum contribution, a special calculation method is applied: For mortgage credit institutions financed by covered bonds: 50% is applied on their Basic Annual Contribution For investment firm authorized to carry out only limited services and activities: the contribution amount is equal to their Basic Annual Contribution These institutions need to fill in only Tab 1 "General information", Tab 2 "Basic annual contribution" and Tab 3 "Deductions".
2020 Master Decision	 For mortgage credit institutions financed by covered bonds: please refer to section 5 "Calculation methodology", subsection 5.6 "Mortgage credit institutions financed by covered bonds which, according to national law, are not allowed to receive deposits" in the MD. For investment firms authorized to carry out only limited services and activities: please refer to section 6 "Investment firms with limited services and activities" in the MD.

D. Risk Adjusted and Article 8(5)- institutions paying a contribution that has been calculated applying a risk adjustment factor

2020 SRF Data Reporting Form	These institutions should fill in all Tabs in the 2020 SRF Data Reporting Form.							
2020 Master Decision	Please refer to section 5 "Calculation methodology", sub-section 5.2 "Calculation of the risk-adjusted contributions". For institutions whose total assets are above EUR 1 bn, but equal to, or less than, EUR 3 bn, please refer to sub-section 5.5 "Partial lump-sum contributions" in the MD. For small institutions that have a risk profile that is disproportionate to their small size, please refer to sub-section 5.4 "Small institutions that have a risk profile that is disproportionate to their in the MD.							

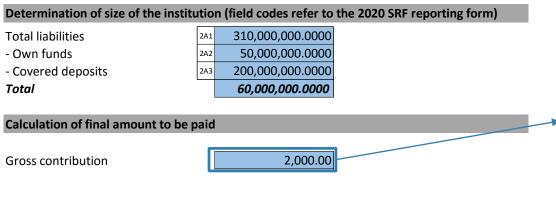
¹ mortgage credit institution financed by covered bonds' means institutions referred to in Article 45(3) of Directive 2014/59/EU.

² investment firm authorized to carry out only limited services and activities' means investment firms as defined in point (2) of Article 4(1) of Regulation (EU) No 575/2013 that is subject to the initial capital requirement laid down in Article 28(2) of Directive 2013/36/EU, which fall within the definition of Article 96(1)(a) or (b) of Regulation (EU) No 575/2013 or which carry out activity 8 of Annex I Section A of Directive 2004/39/EC but which do not carry out activities 3 or 6 of Annex I Section A of that Directive. This investment firm shall also be covered by the consolidated supervision of the parent undertaking carried out by the ECB in accordance with Article 4(1)(g) of Regulation (EU) No 1024/2013.

A. LUMP-SUM

Ex-ante contribution to the Single Resolution Fund for the 2020 contribution period

Example A.1: 2020 ex-ante contribution calculated for small institutions paying a lump-sum contribution



When is an institution eligible for lump-sum?

- Total Assets < €1bn; and</p>
- Base (total liabilities own funds covered deposits) of an institution ≤ €300m

How is the gross contribution determined?

Base of institution	Gross contribution
base ≤ €50m	1,000€
€50m < base ≤ €100m	2,000€
€100m < base ≤ €150m	7,000€
€150m < base ≤ €200m	15,000€
€200m < base ≤ €250m	26,000€
€250m < base ≤ €300m	50,000€

Note:

Since certain investment firms, which are authorized to carry out only limited services and activities, are not subject to, or may be exempted from, certain capital and liquidity requirements, the Commission Delegated Regulation (EU) 2015/63 does not apply to them. In order to be able to, nevertheless, calculate the required contribution for these institutions, the SRB defined a risk adjustment methodology. For those investment firms, whose total liabilities less own funds less covered deposits are less than or equal to EUR 300,000,000, the lump-sum methodology of Article 10 of the Commission Delegated Regulation (EU) 2015/63 is used, without, however, applying the maximum amount (EUR 1,000,000,000) on the total assets. For other investment firms, the contribution amount is equal to the Basic Annual Contribution (see slide 7).

B. ARTICLE 10(7)*

(Institutions that have opted for the alternative calculation under Art. 10(7) DR)

Ex-ante contribution to the Single Resolution Fund for the 2020 contribution period

Example B.1: 2020 ex-ante contribution calculated for lump-sum institution that opted for the alternative calculation

Calculation of gross contribution

	SRMR (80%)	BRRD (20%)
STEP 1 Lump sum amount	50,000.00	50,000.00
STEP 2 Relevant target (as above)	7,100,000,000.0000	300,000,000.0000
BAC numerator (as above)	252,000,000.0000	252,000,000.0000
BAC denominator (as above)	37,000,000,000,000.0000	200,000,000,000.0000
Outcome of alternative calculation	48,356.76	378,000.00
STEP 3 Lower of the two amounts	48,356.76	50,000.00
STEP 4 2020 contribution	48,685.41	

→ How is the 2020 contribution calculated?

For lump-sum institutions that have opted for an alternative calculation, the 2020 ex-ante contribution is determined by comparing the lump sum amount to the alternative calculation (sub-section 5.3 paragraph (56) of MD).

STEP 1: determine the **lump-sum amount** based on institution's base (i.e. total liabilities – own funds – covered deposits)

STEP 2: calculate the **alternative amount** in SRMR and BRRD:

$$target \times \frac{B_n}{\sum_{p=1}^N B_p}$$

Ex:

- In SRMR: 7,100,000,000 x 252,000,000 / 37,000,000,000
 = 48,356.76
- In BRRD: 300,000,000 x 252,000,000 / 200,000,000 = **378,000.00**

STEP 3: choose the lower of the two amounts (i.e. lump sum or alternative) in SRMR and BRRD

Ex:

- In SRMR: min[50,000.00 ; 48,356.76] → 48,356.76
- In BRRD: min[50,000.00 ; 378,000.00] → 50,000.00

STEP 4: determine the 2020 contribution by applying the relative weights: 80% - SRMR and 20% - BRRD

Ex: 0.80 x 48,356.76 + 0.20 x 50,000 = 48,685.41

Legend:

- B_n is the BAC numerator
- $\sum_{p=1}^{N} B_p$ is the BAC denominator
- target is the original target excluding the lump-sum contributions

C. BASIC

CALCULATION DETAILS (Investment firms with limited services and activities) Ex-ante contribution to the Single Resolution Fund for the 2020 contribution period

CALCULATION DETAILS (Mortgage credit institution financed by covered bonds) Ex-ante contribution to the Single Resolution Fund for the 2020 contribution period

Example C.1: 2020 ex-ante contribution calculated for investment firms with limited services and activities

Calculation of gross contribution

STEP 1	Relevant target (as above)
	BAC numerator (as above)
	BAC denominator (as above)
	Outcome calculation

STEP 2 2020 contribution

SRMR (80%)	BRRD (20%)
6,100,000,000.0000	200,000,000.0000
750,000,000.0000	750,000,000.0000
15,000,000,000,000.0000	350,000,000,000.0000
305,000.00	428,571.43
329,714.29	

STEP 2: determine the 2020 contribution by applying the relative weights: 80% - SRMR and 20% - BRRD

Ex: 0.80 x 305,000 + 0.20 x 428,571.43 = 329,714.29

Example C.2: 2020 ex-ante contribution calculated for mortgage credit institutions financed by covered bonds

Calculation of gross contribution

STEP 1 Relevant target (as above) BAC numerator (as above) BAC denominator (as above) Outcome calculation

STEP 2 2020 contribution

SRMR (80%)	BRRD (20%)							
6,100,000,000.0000	200,000,000.0000							
750,000,000.0000	750,000,000.0000							
15,000,000,000,000.0000	350,000,000,000.0000							
152,500.00	214,285.71							
164,857.14								

STEP 2: determine the 2020 contribution by applying the relative weights: 80% - SRM and 20% - BRRD Ex: 0.80 x 152,500 + 0.20 x 214,285.71 = 164,857.14

How is the 2020 contribution calculated?

For investment firms with limited services and activities that do not qualify for a lump sum, the contribution is equal to their Basic Annual Contribution (section 6 paragraph (63) (b) of MD):

$$target \times \frac{B_n}{\sum_{p=1}^N B_p}$$

STEP 1: calculate the basic annual contribution in SRMR and BRRD:

Ex:

- In SRMR: 6,100,000,000 x 750,000,000 / 15,000,000,000 = 305,000.00
- In BRRD: 200,000,000 x 750,000,000 / 350,000,000,000 = 428,571.43

How is the 2020 contribution calculated?

For mortgage credit institutions financed by covered bonds that do not qualify for a lump sum, the contribution is calculated using only 50% of their Basic Annual Contribution (sub-section 5.6 of MD):

$$target \times \frac{B_n}{\sum_{p=1}^N B_p} \times \frac{1}{2}$$

STEP 1: calculate the basic annual contribution in SRMR and BRRD:

Ex:

- In SRM: 6,100,000,000 x 750,000,000 / 15,000,000,000,000 x ½ = 152,500.00
- In BRRD: 200,000,000 x 750,000,000 / 350,000,000 x ¹/₂ = 214,285.71

Repeat STEPS 1 and 2 as for investment firms with limited services and activities, but note that for mortgage credit institutions financed by covered bonds, in order to calculate the "Outcome calculation" 50% of the Basic Annual Contribution is taken into account.

D. RISK ADJUSTED AND ARTICLE 8(5)*

Ex-ante contribution to the Single Resolution Fund for the 2020 contribution period

CALCULATION DETAILS (Risk Adjusted)

Ex-ante contribution to the Single Resolution Fund for the 2020 contribution period

Example D.1: Calculation of the Risk Adjustment Factor (1/2)

k-adjustment factor (field codes refer to the 2020 SRF report	ing template)					
				STEP 1			STEP 2
		,	Weight	Number of bins	Bin number	Sign (DR. Annex	Score of bin (TRI) (DR
			Ű	(DR, Annex I, Step 2)	(DR, Annex I, Step 2)	I, Step 4.1)	Annex I, Step 4.2)
PILLAR I: Risk exposure			50.00%			1	
Leverage ratio			33.33%	19	1	4)	1.0000
CET1 ratio (CET1 capital / Total Risk Exposure)			33.33%	20	13		631.9474
Total Risk Exposure / Total Assets			33.33%	21	5	+	800.2000
PILLAR II: Stability and variety of sources of funding			20.00%				
Liquidity Coverage Ratio			100%	21	15	-	700.3000
PILLAR III: Importance of an institution to the stability of the	financial syst	em or economy	10.00%				
Share of interbank loans and deposits in the EU			100%	20	4	+	842.2632
PILLAR IV: Additional risk indicators			20.00%				
Risk weighted assets for market risk divided by Total Assets			5%	21	1	+	1000.0000
Risk weighted assets for market risk divided by CET1			5%	20	1	+	1000.0000
Risk weighted assets for market risk divided by total risk expos	ure		5%	19	1	+	1000.0000
Off-balance sheet nominal amount divided by Total Assets			5%	21	6	+	750.2500
Off-balance sheet nominal amount divided by CET1			5%	19	7	+	667.000
Off-balance sheet nominal amount divided by total risk exposi-	ure		5%	19	19	+	1.0000
Derivatives exposure divided by Total Assets			5%	21	1	+	1000.0000
Derivatives exposure divided by CET1			5%	19	14	1	278.5000
Derivatives exposure divided by total risk exposure			5%	19	14		278.5000
Membership in an Institutional Protection Scheme	1C4	Yes	45%			-	777.8000
IPS bin	101	2.0000	1070				
Multiplier factor for the IPS indicator		777.8000					
Extent of previous extraordinary public financial support	4D17	No	10%			+	1000.0000
Calculation of SRM risk-adjustment factor							
Pillar I - Composite Indicator (DR, Annex I, Step 5)		477.6680					
Pillar II - Composite Indicator (DR, Annex I, Step 5)		700.3000					
Pillar III - Composite Indicator (DR, Annex I, Step 5)		842.2632					
Pillar IV - Composite Indicator (DR, Annex I, Step 5)		748.7725					
Composite Indicator (DR, Annex I, Step 5)		597.0829			Minimum FCI		66.397703393189
		402.9171			Maximum FCI		961.431578011444
Final Composite Indicator (FCI) (DR, Annex I, Step 5) Risk Adjustment Factor (DR, Annex I, Step 6)		402.9171					901.431578011444

* Mid-size institutions as defined in Article 8(5) of CIR.

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Note: The steps described in these slides do not correspond to steps in Annex I of the DR.

How is the Risk Adjustment Factor calculated?

For risk-adjusted institutions, the basic annual contributions of the institutions are further adjusted in proportion to their risk profile (subsection 5.2 of MD).

STEP 1: following the "Discretization of the Indicators" in Annex I Step 2 of the DR, a number of bins per indicator is determined and institutions are assigned to one of these bins according to the value taken by their risk indicator. Institutions with the lowest value of the raw indicators are assigned to the first bins and institutions with the highest value to the last bin.

Ex. In Pillar I, indicator "Leverage ratio", there are 19 bins. Based on the value of the leverage ratio raw indicator, the institution was placed in bin 1 (hence, it has the lowest value of the raw indicators).

STEP 2: rescaling of indicators (including the assigned sign) is performed by applying the following formulas:

$$(1000-1) \cdot \frac{I_{k,n} - \min_{n} I_{k,n}}{\max_{k,n} - \min_{n} I_{k,n}} + 1$$
 if sign = '-'

$$1001 - ((1000 - 1) \cdot \frac{I_{k,n} - \min_n I_{k,n}}{\max_n I_{k,n} - \min_n I_{k,n}} + 1) \qquad \text{if sign} = '+'$$

Ex: In Pillar I:

- "CET1 ratio" with negative sign: (1000 1) x (13-1)/(20-1) +1 = 999 x 12/19 +1 = 631.9474
- "TRE/TA" with positive sign: 1001 ((1000 1) x (5-1)/(21-1) +1) = 1001
 (999 x 4/20 +1) = 1001 200.8000 = 800.2000

D. RISK ADJUSTED AND ARTICLE 8(5)

Ex-ante contribution to the Single Resolution Fund for the 2020 contribution period

CALCULATION DETAILS (Risk Adjusted)

Ex-ante contribution to the Single Resolution Fund for the 2020 contribution period

Example D.1: Calculation of the Risk Adjustment Factor (2/2)

Risl	k-adjustment factor (field codes refer to the 2020 SRF reporting	g template	2)						
						STEP 1		STEP 2	
				Weight	:	Number of bins	Bin number	Sign (DR, Annex	Score of bin (TRI) (DR,
R				50.000	,	(DR, Annex I, Step 2)	(DR, Annex I, Step 2)	I, Step 4.1)	Annex I, Step 4.2)
	PILLAR I: Risk exposure			50.00%	- A	19	1	1	1.0000
	Leverage ratio			33.33%		20	13		631.9474
	CET1 ratio (CET1 capital / Total Risk Exposure) Total Risk Exposure / Total Assets			33.33%		20	5		800.2000
	Total Risk Exposure / Total Assets			33.33%)	21	3	J+	800.2000
ł	PILLAR II: Stability and variety of sources of funding			20.00%	6				
	Liquidity Coverage Ratio			100%		21	15	-	700.3000
							-	,ı	
Ŗ	PILLAR III: Importance of an institution to the stability of the fin	ancial syst	tem or economy	10.00%	6				
5	Share of interbank loans and deposits in the EU			100%		20	4	+	842.2632
_					_				
P	PILLAR IV: Additional risk indicators			20.00%	6				
F	Risk weighted assets for market risk divided by Total Assets			5%		21	1	+	1000.0000
F	Risk weighted assets for market risk divided by CET1			5%		20	1	+	1000.0000
F	Risk weighted assets for market risk divided by total risk exposure	e		5%		19	1	+	1000.0000
,	Off-balance sheet nominal amount divided by Total Assets			5%	1	21	6	+	750.2500
	Off-balance sheet nominal amount divided by CET1			5%		19	7		667.000
	Off-balance sheet nominal amount divided by total risk exposure			5%		19	, 19	{}	1.0000
	on-balance sheet nominal amount divided by total risk exposure			J/0		15	15	+	1.0000
ſ	Derivatives exposure divided by Total Assets			5%		21	1	+	1000.0000
٢	Derivatives exposure divided by CET1			5%		19	14	+	278.5000
[Derivatives exposure divided by total risk exposure			5%		19	14	+	278.5000
	F								1
Ν	Membership in an Institutional Protection Scheme	1C4	Yes					-	777.8000
	IPS bin		2.0000						
,	Multiplier factor for the IPS indicator Extent of previous extraordinary public financial support	4D17	777.8000 No					+	1000.0000
		4017	INU	10%				Ŧ	1000.0000
¢	Calculation of SRM risk-adjustment factor			ר					
F	Pillar I - Composite Indicator (DR, Annex I, Step 5)		477.6680						
	Pillar II - Composite Indicator (DR, Annex I, Step 5)		700.3000						
F	Pillar III - Composite Indicator (DR, Annex I, Step 5)		842.2632						
F	Pillar IV - Composite Indicator (DR, Annex I, Step 5)		748.7725						
0	Composite Indicator (DR, Annex I, Step 5)		597.0829				Minimum FCI		66.397703393189
F	Final Composite Indicator (FCI) (DR, Annex I, Step 5)		402.9171				Maximum FCI		961.431578011444
r	Risk Adjustment Factor (DR, Annex I, Step 6)	- 1	1.063189532847						

How is the Risk Adjustment Factor calculated?

STEP 3: aggregate the indicators within each pillar through a weighted arithmetic average to calculate the Composite Indicator.

Ex: Pillar I Composite Indicator is calculated as follows: $(1/3 \times 1) + (1/3 \times 631.9) + (1/3 \times 800.2) = 477.6680$

STEP 4: compute the Composite Indicator by aggregating the pillars through a weighted geometric average (weight of Pillar I - 5/10, Pillar II - 2/10, Pillar III - 1/10 and Pillar IV - 2/10).

Ex: 477.6680^(5/10) x 700.3000^(2/10) x 842.2632^(1/10) x 748.7725^(2/10) = **597.0829**

STEP 5: define the Final Composite Indicator as FCI=1000-CI so that institutions with higher risk profiles get a higher FCI (i.e. closer to 1000).

Ex: 1000 - 597.0829 = 402.9171

STEP 6: rescale the Final Composite Indicator over the range [0.8;1.5] by applying the following formula:

$$\tilde{R}_n = (1.5 - 0.8) \cdot \frac{FCI_n - \min_n FCI_n}{\max_k FCI_k - \min_n FCI_n} + 0.8$$

Ex: (1.5 - 0.8) x (402.9171 - 66.3977) / (961.4316 - 66.3977) + 0.8 = 0.7 x 336.5194 / 895.0339 + 0.8 = **1.063189532847**

D. RISK ADJUSTED

Example D.2: 2020 ex-ante contribution calculated for risk-adjusted institution that does not qualify for Art. 8(5) of CIR

Calculation of gross contribution (DR, Annex I, Step 6) SRMR (80%) BRRD (20%) **STEP 1** (a) Relevant target (as above) 5,100,000,000.0000 100,000,000.0000 (b) BAC numerator (Bn, as above) 900.000.000.0000 900,000,000.0000 (c) BAC denominator* 13,000,000,000,000.0000 300,000,000,000.0000 (d) Risk Adjustment Factor (Rn, as above) 1.443210000 1.063189533 (e) Sum of risk adjusted BACs** 4,000,000,000,000.0000 18,700,000,000,000.0000 Outcome calculation*** 260,964.70 32,472.23 STEP 2 2020 contribution 215,266.21

What is the sum of risk adjusted BACs?

The sum of risk adjusted BACs can be expressed in the following formula:

$$\sum_{p=1}^{N} B_p * \tilde{R}_p$$

Ex: hypothetical environment with only three institutions

	BAC	RAF	BAC x RAF
Bank A	900	0.9	810
Bank B	500	1.35	675
Bank C	750	1.5	1,125
SUM	2,150		2,610

 \rightarrow The sum of risk adjusted BACS: 810 + 675 + 1,125 = 2,610

How is the 2020 contribution calculated?

The 2020 contribution of risk-adjusted institutions depends on the relevant target, relative size of its basic annual contribution and its risk:

$$Target * \frac{\frac{B_n}{\sum_{p=1}^N B_p} * \tilde{R}_n}{\sum_{p=1}^N \left(\frac{B_p}{\sum_{q=1}^N B_q} * \tilde{R}_p\right)} = (a) * \frac{\frac{(b)}{(c)} * (d)}{\frac{(e)}{(c)}}$$

STEP 1: calculate the contribution amount in SRMR and BRRD.

Ex:

- In SRMR: 5,100,000,000 x (900,000,000/13,000,000,000,000) x 1.063189532847 / (18,700,000,000,000/13,000,000,000,000) = 260,964.70
- In BRRD: 100,000,000 x (900,000,000/300,000,000,000) x 1.443210000 / (4,000,000,000,000/300,000,000) = 32,472.23

STEP 2: determine the **2020 contribution** by applying the relative weights: 80% - SRMR and 20% - BRRD

Ex: 0.80 x 260,964.70 + 0.20 x 32,472.23 = **215,266.21**

D. ARTICLE 8.5

Example D.3: 2020 ex-ante contribution calculated for risk-adjusted institution that qualifies for Art. 8(5) of CIR

Basic Annual Contribution (BAC): numerator (field codes refer to the 2020 SRF reporting template)

- Own funds
- Covered deposits
- Sub total
- +/- Derivative adjustment (If applicable; see last page)
- Deductions (If applicable; see last page)
- Liabilities treated according to Art. 8(5) CIR

STEP 1 BAC Numerator

2A1	2,000,000,000.0000
2A2	200,000,000.0000
2A3	800,000,000.0000
	1,000,000,000.0000
	65,000,000.0000
	15,000,000.0000
	300,000,000.0000
	750,000,000.0000

How is the 2020 contribution calculated?

In accordance with Art. 8(5) of Council Implementing Regulation (EU) 2015/81, the 2020 contribution of institutions whose total assets are above €1 bn, but equal to, or less than, €3 bn pay a lump-sum of €50,000 for the first €300 m of total liabilities excluding own funds and covered deposits. For the remaining total liabilities, institutions contribute in accordance with the risk-adjusted regime of the DR.

STEP 1: calculate the **BAC numerator*** by excluding liabilities treated in accordance with Art. 8(5).

Ex. max(2,000,000,000 - 200,000,000 - 800,000,000 + 65,000,000 - 15,000,000 - **300,000,000;** 0) = **750,000,000**

STEP 2: calculate the contribution amounts in SRMR and BRRD.

$$Target * \frac{\frac{B_n}{\sum_{p=1}^{N}B_p} * \tilde{R}_n}{\sum_{p=1}^{N} \left(\frac{B_p}{\sum_{q=1}^{N}B_q} * \tilde{R}_p\right)} = (a) * \frac{\frac{(b)}{(c)} * (d)}{\frac{(e)}{(c)}}$$

Ex:

- In SRMR:
 - > For the first 300 m: 50,000
 - For the remaining 750 m: 5,100,000,000 x (750,000,000/13,000,000,000) x 1.063189532847 / (18,700,000,000,000/13,000,000,000,000) = 217,470.59
 - > Total: 50,000 + 217,470.59 = **267,470.59**

In BRRD:

- > For the first 300 m: 50,000
- For the remaining 750 m: 100,000,000 x (750,000,000/ 300,000,000,000) x 1.44321000000 / (4,000,000,000,000/300,000,000) = 27,060.19
- Total: 50,000 + 27,060.19 = 77,060.19

Calculation of gross contribution (DR, Annex I, Step 6)					
	SRMR (80%)]	BRRD (20%)		
STEP 2 (a) Relevant target (as above)	5,100,000,000.0000		100,000,000.0000		
(b) BAC numerator (Bn, as above)	750,000,000.0000		750,000,000.0000		
(c) BAC denominator*	13,000,000,000,000.0000		300,000,000,000.0000		
(d) Risk Adjustment Factor (Řn, as above	1.063189532847		1.443210000000		
(e) Sum of risk adjusted BACs**	18,700,000,000,000.0000		4,000,000,000,000.0000		
Outcome calculation***	267,470.59		77,060.19		
Of which: EUR 50.000 for liabilities treate	Of which: EUR 50.000 for liabilities treated in accordance with Article 8(5) CIR				
STEP 3 2020 contribution	229,388.51				

STEP 3: determine the 2020 contribution by applying the relative weights: 80% - SRMR and 20% - BRRD

Ex: 0.80 x 267,470.59 + 0.20 x 77,060.19 = **229,388.51**

*In the calculation, the BAC numerator cannot be valued below zero in order to avoid obtaining negative amounts.

E. SRM AND BRRD CALCULATION DETAILS

Example E.1: SRM and BRRD calculation details

SRMR (80%)	BRRD (20%)

Why are there two calculation methods?

During the transitional period, the ex-ante contributions are calculated in accordance with the adjusted methodology laid down in Article 8(1) of the Council Implementing Regulation (EU) 2015/81. (27) For the 2020 contribution period, for all institutions (section 5 of MD):

- 20% of the annual contributions were calculated in accordance with Article 103 of Directive 2014/59/EU and Article 4 of Commission Delegated Regulation (EU) 2015/63 ("National Base" or, in the annexes "BRRD"), and
- 80% of the annual contributions were calculated in accordance with Articles 69 and 70 of Regulation (EU) No 806/2014 and Article 4 of Council Implementing Regulation (EU) 2015/81 ("Euro Area Base" or, in the annexes, "SRMR").

Ex: For risk-adjusted institutions the risk adjustment factor is calculated twice: on the National Base and the Euro Area Base. Therefore, institutions' basic annual contributions are adjusted in proportion to their risk profile twice: on the National Base and the Euro Area Base (which might result in different contributions). The final contribution is then weighted 20% on the National Base contribution and 80% on the Euro Area Base contribution.

Note:

For the calculation of the part of the annual contributions in the National Base, only data from institutions that are authorised in the territory of that participating Member State are taken into account, while data from institutions that are authorised in the territories of other participating Member States are not considered. Consequently, the target used for this calculation is defined on a National Base taking into account only the covered deposits of the credit institutions in the relevant participating Member State. In the same way, the relative riskiness and the relative size of an institution are assessed only in comparison with the riskiness and the size of institutions authorised in the territories of all participating Member States. For the calculation of the part of annual contributions in the Euro Area Base, data from all institutions established in the participating Member States, and the relative riskiness and size of the institutions are assessed in comparison with all such institutions. The methodology for calculating the contributions is the same in both calculations.

F. BASIC ANNUAL CONTRIBUTION

Example F.1: How are the intermediate steps for Basic Annual Contributions calculated? Applicable for 10.7, Basic, Risk Adjusted institutions, and Article 8.5

Input values used in the calculation (field codes refer to the 2020 SRF data reporting form) in addition to the ones mentioned above to identify the BAC

Adju	Adjustment of liabilities arising from derivative contracts (excluding credit derivatives)		
2C1	Liabilities arising from all derivative contracts (excluding credit derivatives) valued in accordance with the	60,000,000.0000	
2C2	Accounting value of liabilities arising from all derivative contracts (excluding credit derivatives) booked on-	45,000,000.0000	
2C3	Accounting value of liabilities arising from all derivative contracts (excluding credit derivatives) held off-balance	5,000,000.0000	
	Derivative adjustment (-2C2+max(2C1;0.75*(2C2+2C3))	15,000,000.0000	

Deductions according to Article 5(1) of Delegated Regulation 2015/63		
3A8	Total deductible amount of qualifying liabilities related to clearing activities	0.0000
3B8	Total deductible amount of qualifying liabilities related to CSD activities	0.0000
3C8	Total deductible amount of qualifying liabilities that arise by virtue of holding client assets or client money	0.0000
3D8	Total deductible amount of qualifying liabilities that arise from promotional loans	0.0000
3E11	Total deductible amount of assets and liabilities arising from qualifying IPS liabilities	50,000.0000
3F11	Total deductible amount of assets and liabilities arising from qualifying intragroup liabilities	100,000.0000
	Total deductions	150,000.0000

How is the total deduction amount calculated?

The total deduction amount is calculated by taking fields 3A8, 3B8, 3C8, 3D8, 3E11 and 3F11 in the 2020 SRF Data Reporting Form and summing up all amounts.

Ex: 50,000 + 100,000 = **150,000**

How is the derivative adjustment calculated?

Derivative adjustment is calculated by taking fields 2C1, 2C2 and 2C3 in the 2020 SRF Data Reporting Form and applying the following formula (subsection 5.1 of MD):

- ONBS + max[LR; 0.75 x (ONBS + OFFBS)]

which means that accounting value of liabilities arising from derivative contracts booked on balance sheet is deducted (- **ONBS**) and replaced with the highest of either on- and off-balance sheet liabilities arising from derivative contracts valued in accordance with the leverage ratio methodology or 75% of the sum of on- and off- balance sheet accounting value of liabilities arising from derivative contracts (+ max[LR; 0.75 x (ONBS + OFFBS)]).

Ex: - 45,000,000 + max[60,000,000 ; 37,500,000] = **15,000,000**

F. BASIC ANNUAL CONTRIBUTION

Example F.2: What is taken into account when calculating Basic Annual Contributions? Applicable for 10.7, Basic, Risk Adjusted institutions, and Article 8.5

Calculation method & relevant target level					
		SRMR		BRRD	
Target relevant for the calculation method		7,100,000,000.0000		300,000,000.0000	
Basic Annual Contribution (BAC): numerator (fie	ld code	s refer to the 2020 S	RF reporti	ing template)	
Total liabilities	2A1	4,000,000,	000.0000		
- Own funds	2A2	400,000,	000.0000		
- Covered deposits	2A3	1,600,000,	000.0000		
Sub total		2,000,000,0	000.0000		
+/- Derivative adjustment (If applicable; see las	t page)	15,000,	000.0000		
- Deductions (If applicable; see last page)		150,000.0000			
BACNumerator		2,014,850,0	000.0000		
How is the BAC numerator calculated?				-	

The institution's BAC numerator (sub-section 5.1 of MD) takes into account data provided in Tabs 2 & 3 of the 2020 SRF Data Reporting Form. The BAC numerator is calculated by applying the following adjustments (if applicable) to institution's **total liabilities**:

- subtracting own funds
- subtracting covered deposits
- adding or subtracting derivative adjustment
- subtracting **deductions** (exclusions described in Article 5(1) of DR)

Ex: 4,000,000,000 - 400,000,000 - 1,600,000,000 + 15,000,000 - 150,000 = **2,014,850,000**

 Basic Annual Contribution (BAC): denominator

 SRMR
 BRRD

 Sum of the relevant BACs
 15,000,000,000,000,000
 2,000,000,000,000

What is the relevant target level?

The total amount of contributions to the Fund for the 2020 ex-ante contribution period (the "annual target level") was set at 1/8th of 1.25% of the covered deposits of all credit institutions authorised in the participating Member States in 2019 (section 4 of MD).

The target level relevant for the calculation method is determined in accordance with Annex I, Step 6 of DR, which means that the amount referred in these fields will be different depending if the institution:

- Qualifies for a lump-sum treatment, but opted for an alternative calculation in accordance with Art. 10(7) of DR;
- Identified itself as mortgage credit institutions financed by covered bonds or investment firm authorized to carry out only limited services and activities;
- Qualifies for a risk adjusted contribution calculation.

What is the sum of the relevant BACs? $\sum_{p=1}^{N} B_p$

The sum of relevant BACs for the calculation method will be different depending on whether the institution:

- Qualifies for a lump-sum treatment, but opted for an alternative calculation in accordance with Art. 10(7) of DR;
- Identified itself as mortgage credit institutions financed by covered bonds or as investment firm authorized to carry out only limited services and activities;
- Qualifies for a risk adjusted contribution calculation.

H. OTHER INPUT VALUES USED IN THE CALCULATION

Example H.1: What are the additional input values used to perform the calculations? Applicable for Risk Adjusted institutions and Article 8.5

Othe	Other input values used in the calculation			
1D1	Start date of supervision (only filled if in the course of 2019)			
1E1	Reference date for reporting form	31/12/2018		
4A7	Leverage ratio	0.0600		
4A14	CET1 capital	200,000,000.0000		
4A15	Total Risk Exposure	10,000,000,000.0000		
4A16	CET1 ratio (CET1 capital / Total Risk Exposure)	0.0200		
4A17	Total assets	30,000,000,000.0000		
4A18	Total Risk Exposure / Total Assets	0.3333		
4B6	Liquidity Coverage Ratio	1.0000		
4C6	Interbank loans	3,000,000,000.0000		
4C7	Interbank deposits	7,000,000,000.0000		
4C8	Share of interbank loans and deposits in the EU	10,000,000,000.0000		
4D1	Risk exposure amount for market risk on traded debt instruments	50,000,000.0000		
4D4	Risk weighted assets for market risk divided by Total Assets	0.0017		
4D3	Risk weighted assets for market risk divided by CET1	0.2500		
4D2	Risk weighted assets for market risk divided by total risk exposure	0.0050		
4D5	Total off-balance sheet nominal amount	4,000,000,000.0000		
4D8	Off-balance sheet nominal amount divided by Total Assets	0.1333		
4D7	Off-balance sheet nominal amount divided by CET1	20.0000		
4D6	Off-balance sheet nominal amount divided by total risk exposure	0.4000		
4D9	Total derivative exposure	80,000,000.0000		
4D10	Of which: derivatives cleared through a central counterparty (CCP)	0.0000		
4D13	Derivatives exposure divided by Total Assets	0.0027		
4D12	Derivatives exposure divided by CET1	0.4000		
4D11	Derivatives exposure divided by total risk exposure	0.0080		
4D17	Does the institution meet the three conditions of 'public financial	No		

What are the additional input values used to perform the calculations?

Each Harmonized Annex includes input data used in the calculation. In the case of risk adjusted and Article 8.5 institutions, all data points used to determine the institutions' risk adjustment factor, including the raw values but also the calculated ratios used to assign the institution to its bin (Annex I DR Step 2), are presented at the end of the Harmonized Annex.

H. CALCULATION OF FINAL AMOUNT TO BE PAID

Example H.1: How to get to the "Final amount to be paid"? Applicable to all institutions

Calculation of final amount to be paid				
2020 contribution	2,000,000.00			
Deduction of 2015 contribution	250,000.00			
+/- 2015 data restatements	50,000.00			
+/- 2016 data restatements	150,000.00			
+/- 2017 data restatements	- 50,000.00			
+/- 2018 data restatements	- 20,000.00			
+/- 2019 data restatements	50,000.00			
+ Adjustment for newly supervised	N/A			
Final amount to be paid	1,930,000.00			

How to get to the final amount to be paid?

The final amount to be paid is determined by taking 2020 ex-ante contribution calculated (sections 5 & 6 of MD) and applying the following adjustments (if applicable):

- subtracting part of 2015 contribution paid by the institution (section 7 of MD)
- adding or subtracting adjustment related to data restatements (section 9 of MD)

Ex: 2,000,000 - 250,000 + 50,000 + 150,000 - 50,000 - 20,000 + 50,000 = **1,930,000**

Example H.2: How is the "Adjustment for newly supervised" institutions determined? Applicable to all institutions

Calculation of final amount to be paid				
2020 contribution	2,000,000.00			
+ Adjustment for newly supervised	1,000,000.00			
Final amount to be paid	3,000,000.00			
Input values used in the calculation (field codes refer to the 2020 SRF data reporting form) in addition to the ones mentioned above to identify the BAC				
Other input values used in the calculation				
1D1 Start date of supervision (only filled if in the course of 2019)	05/06/2019			

How is the adjustment for newly supervised institutions determined?

In accordance with Article 12(1) DR, the partial contributions for 2019 (of institutions that are newly supervised in the year 2019) are determined by considering the amount of 2020 ex-ante contributions by reference to the number of full months of the contribution period for which the institution was supervised.

Ex: if the start date of supervision is 5 June 2019, the institution was supervised for 6 full months \rightarrow 2,000,000*(6/12) = **1,000,000**

Example H.3: How is the "Possible IPC amount" determined? Applicable to all institutions

Calculation of final amount to be paid			
2020 contribution	2,000,000.00		
Deduction of 2015 contribution	250,000.00		
Final amount to be paid	1,750,000.00		
	_,,		

How is the IPC amount determined?

Pursuant to the Decision of the Board of 17 December 2019 on the 2020 policy concerning irrevocable payment commitments (SRB/ES/SRF/2019/18), such amount was calculated as **15% of the total payment obligation** of each institution.

Ex: 1,750,000 x 0.15 = **262,500**

I. ADDITIONAL INFORMATION ON THE RISK INDICATORS UNDER THE SRM

Example I.1: What additional information is provided on the risk indicators? Applicable for Risk Adjusted institutions and Article 8.5

Additional information on the risk indicators under the SRMR				
PILLAR I: Risk exposure	Min	Max	Median	Mean
4A7 Leverage ratio	0.0022	10.0318	0.0789	0.1023
4A16 CET1 ratio (CET1 capital / Total Risk Exposure)	0.0663	12.7400	0.1579	0.2065
4A18 Total Risk Exposure / Total Assets	0.0007	443.4624	0.5256	0.7787
PILLAR II: Stability and variety of sources of funding				
4B6 Liquidity Coverage Ratio	0.0000	999,999.9999	1.6931	1,863.1565
PILLAR III: Importance of an institution to the stability of the financial system or economy				
4C8 Share of interbank loans and deposits in the EU	0.0000	651,933,203,280.0000	515,017,556.0000	15,571,468,599.7330
PILLAR IV: Additional risk indicators				
4D4 Risk weighted assets for market risk divided by Total Assets	0.0000	17.3893	0.0000	0.0146
4D3 Risk weighted assets for market risk divided by CET1	0.0000	14.2917	0.0000	0.0533
4D2 Risk weighted assets for market risk divided by total risk exposure	0.0000	2.4870	0.0000	0.0095
4D8 Off-balance sheet nominal amount divided by Total Assets	0.0000	156.8638	0.1646	0.2747
4D7 Off-balance sheet nominal amount divided by CET1	0.0000	77.4064	1.9304	2.3731
4D6 Off-balance sheet nominal amount divided by total risk exposure	0.0000	9.3564	0.3093	0.3819
4D13 Derivatives exposure divided by Total Assets	0.0000	18.0075	0.0012	0.0225
4D12 Derivatives exposure divided by CET1	0.0000	23.6823	0.0137	0.2090
4D11 Derivatives exposure divided by total risk exposure	0.0000	10.1729	0.0022	0.0430

The descriptive statistics (minimum, maximum, median, mean) presented in the last section of the Harmonized Annex enable institutions to picture the distribution of each risk indicator and to have a better understanding of the bin to which they have been allocated when calculating the ex-ante contributions at Euro Area Base (SRMR). The statistics of the calculations in the summary and collective form that were shared together with the documentation on the 2020 ex-ante contributions provide further details on the discretization step of the non-binary risk indicators performed calculating the ex-ante contributions at Euro Area Base.