

Basel III Endgame

Basel III final reforms in the US

0.1

General Overview of the Proposed Rules

Credit Risk

Counterparty Credit Risk

Market Risk

CVA Risk

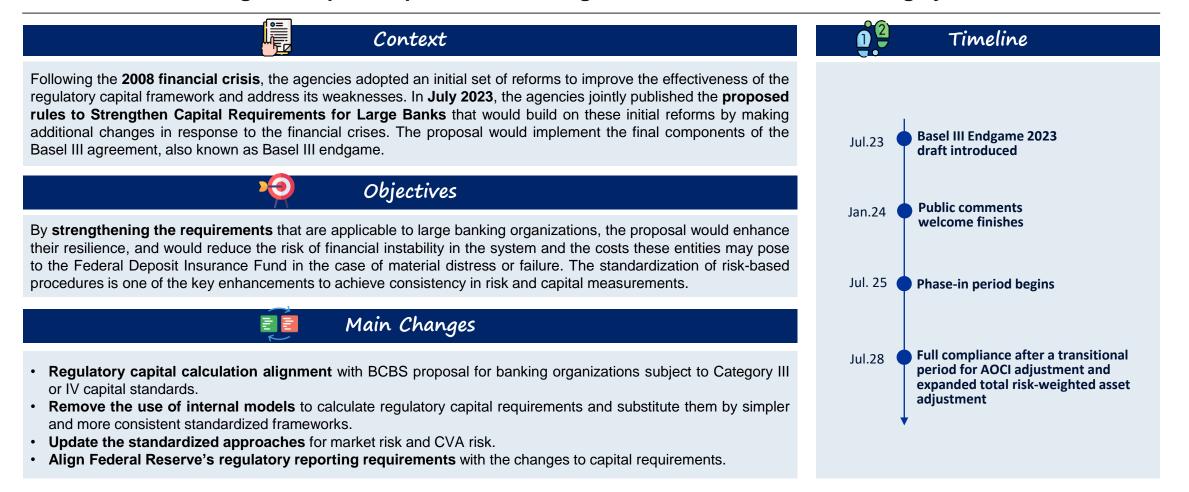
Operational Risk

Why Management Solutions?

Annex

General Overview of the Proposed Rules Executive Summary

The three federal banking agencies¹ have published a set of proposed rules, known as Basel III endgame, to strengthen capital requirements for large banks to enhance the banking system

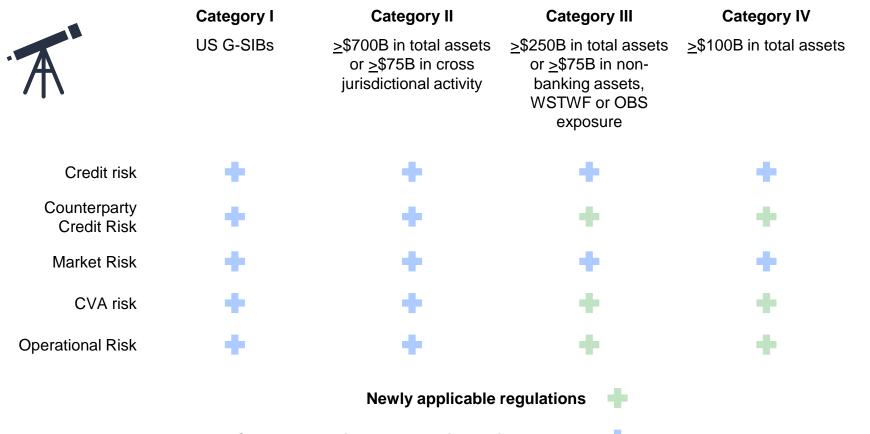






General Overview of the Proposed Rules Scope: The Four Banking Categories

The proposal would apply to large banking organizations, which are classified into four categories depending on their asset size. Categories III and IV are to be the most affected



Currently applicable regulations with changes



General Overview of the Proposed Rules Defined Risk-Based and Capital Changes

Each type of risk is affected by the proposed regulations by altering the current methods of assessment, as well as the output floor and capital ratio requirements

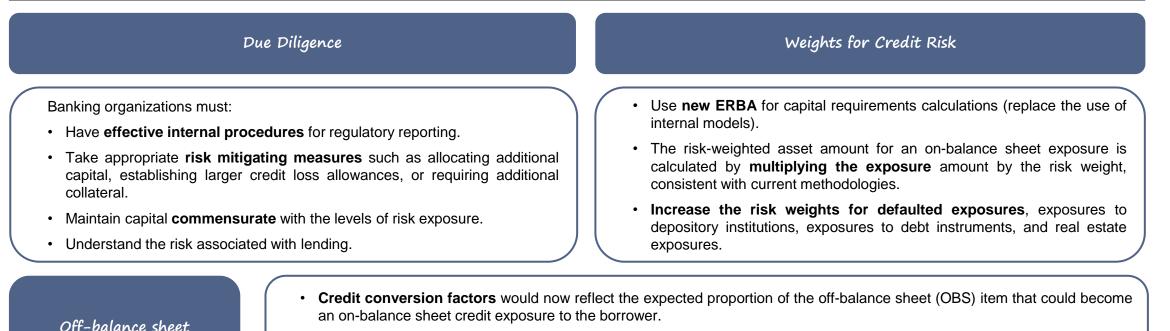
		Current	Proposed	
	Credit Risk	 (SA) Standardized credit risk approach (AIRB) Internal models (only Cat I-II) 	 (SA) Revisited Standardized credit risk approach (ERBA) Expanded risk-based approach 	
	Counterparty Credit Risk	 (SA) Standardized approach (SA-CCR) or CEM (AIRB) Standardized approach (SA-CCR) or Internal Models 	(SA-CCR) Standardized risk weight (updated for Cat I-II, new requirements for Cat III-IV)	
	Market Risk	Market Risk Rule applicable to both standardized and advanced approaches	 (SA) New risk-based standardized method (Cat I –IV) (IMA) Internal models-based method (they require specific approval) (Cat I-IV) 	
	CVA Risk	Simple or CVA Internal Methods (Cat I-II)	(BA-CVA) Basic approach and (SA-CVA) Standardized approach (updated for Cat I-II, new requirements for Cat III-IV)	
•	Operational Risk	No RWA requirement in the US except if in AMA (Cat I-II)	 (ERBA) Standardized approach replaces internal model (Cat I- II) and it is a new requirement for Cat III-IV 	
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Dual risk weighted asset requirement

- The higher of the two risk-weighted asset amounts:
 - Standardized RWA (SA CR + SA-CCR + SA MR)
 - Expanded-approach RWA (CR, MR, Equity, OR, CVA on ERBA), adjusted by the output floor (maximum RWA with or without floor) *Output Floor = 0.725 × (Credit RWA + Operational RWA + Market RWA (standardized measure) + Equity RWA + CVA RWA)*
- All capital buffer requirements, including stress tests, would apply regardless of which method produced the lower ratio¹
- Category III and IV banks must include AOCI components in common equity tier 1 capital elements and lose the ability to opt-out of this



New risk-based approaches to calculating credit risk capital requirements are built on a foundation of due diligence, risk weights, Off-balance sheet exposures, and mitigation



 Upon determining the off-balance sheet exposure amount, it will be multiplied by the appropriate risk weight in order to calculate a risk-weighted asset value which helps in capital requirement calculations. The proposed averaging methodology would apply a multiplier of 10 to the average total drawn amount.

Credit Risk Mitigation

Exposures

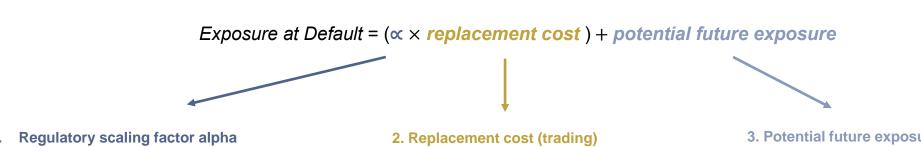
No longer permit the recognition of credit protection from nth-to default credit derivatives.



To determine if a borrower is credible, risk-sensitive measures are necessary in aiding the process of risk management and measurement of exposure at default

Exposure calculations for repurchase-style transactions and margin loans are refined Hedging sets for specific assets are introduced Better recognition of secured and cleared trades Hedging Sets, Haircuts, Minimum haircut floors for SFT exposures and Exposure Calculations Increased risk-sensitivity through addressing negative market values and over-collateralization Alignment with risk-based framework by revising market price volatility haircuts Standardized approach to CCR (SA-CCR) replaces the current methodology for all categories of banking institutions. The current exposure method is to be replaced

Standardized Approach for Measuring Exposure at Default



- 1.4 for non-commercial end users
- 1.0 for commercial end users

- As calculated under SA-CCR
- The notional amount of the derivative contract

3. Potential future exposure

- Multiplier accounting for over-collateralization ٠
- Add-ons from various asset classes
- Must be greater than 0



The proposal would introduce a risk-sensitive standardized methodology for calculating risk-weighted assets for market risk and a new models-based methodology

Market Risk-Covered Position	• The definition of market risk covered position is expanded to include any trading asset or trading liability held for regular dealing or making a market in securities or other instruments, as well as foreign exchange and commodity positions , regardless of whether they are a trading asset or liability, with certain exclusions (i.e. structured positions subject to prior approval and , those that are eligible as CVA hedges that mitigate the exposure component of CVA risk).
Internal Risk Transfers	Internal risk transfers are defined and requirements are established for a banking organization to recognize certain types of internal risk transfers in risk-based capital requirements. (Capitalized exposure to a trading desk or CVA desk to a trading desk)
General Requirements	 Introduction of the concept of a trading desks and notional trading desks, banking organizations must define their trading desk structure and have clearly defined trading and hedging strategies for their trading positions. Replacement of the VaR-based measure with an expected shortfall-based measure that better accounts for extreme losses. Active management of covered positions, stress testing, and internal assessment of capital adequacy. Expanded responsibilities for the independent risk control unit's oversight to include market risk management systems.
Measure for Market Risk	 Standardized measures will be the default methodology for capital requirements, consisting of sensitivities-based method, standardized default risk capital requirement, a residual risk add-on, fallback capital requirement, capital add-on for redesignations, and any additional capital requirement established by the primary Federal supervisor. Models-based methodology is introduced and combines internal models approach capital requirements for model-eligible trading desks, standardized approach capital requirements for model-ineligible trading desks, and additional capital requirements for model-eligible trading desks, ensuring efficient operations and regulatory compliance. Apply fallback capital requirements to market risk covered positions and have clear identification on market risk covered and non-covered positions.



Management Solutions Making things happen

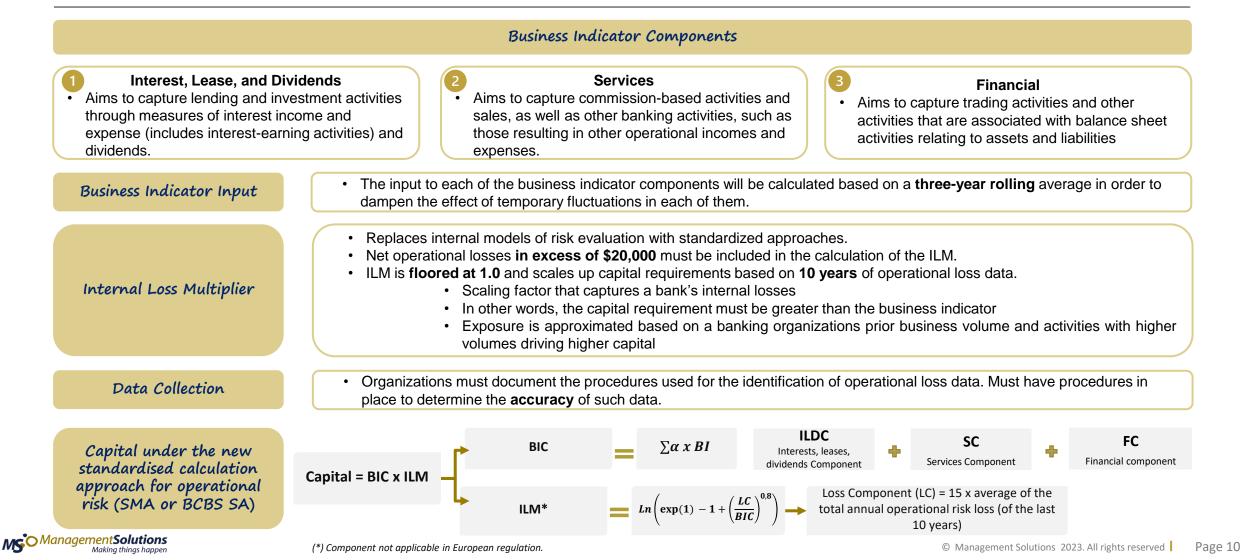
New CVA risk requirements stem from adding new standardized approaches relating risk-weights and hedges as well as new measures and risk management requirements

Risk Management Requirements	 Organizations using the standardized approach must document all policies of the CVA desk, internal auditing procedures and internal CVA calculations. To receive approval to use the standardized approach, an organization must be able to calculate its regulatory CVA on monthly basis. Once approved, exposure models included in regulatory CVA calculations must be a part of the risk management framework including management, identification, approval, measurement, and reporting of CVA risk.
CVA Positions and Hedges	 Define a risk-covered position as a derivative contract that is not a cleared transaction. Cleared transactions and SFTs are not considered CVA risk-covered positions. Certain CVA hedges can be included as risk-reducing elements in risk-weighted asset calculations. Treatment of hedges aims to reflect economic risks and CVA capital requirements Clear policies must be established by being reviewed and approved by senior management
Measurements for Calculating Capital Requirements	 Basic approach (BA-CVA) Easier to implement than SA-CVA, similar to the current standard approach Recognizes the risk-mitigating benefit of hedges Restricts hedge-effectiveness Exposure-based approach New method for calculating risk-weights for credit indices Standardized approach (SA-CVA) Requires regulatory approval to use Complex and uses model sensitivities-based approach similar to market risk Reflects capital requirements for delta and vega only (market-based) Aggregates risk-weighted sensitivities for delta and vega separately Includes a capital multiplier that accounts for any model risk

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Operational risk capital requirements are now standardized and are computed as a functional measure of the business indicator and the ILM



Why Management Solutions?

MS has extensive experience in risk and capital management, particularly in the processes of compliance with the associated regulation (Basel/CRR/CRD/Capital Rules)

- 1. Experience with supervisory bodies. MS is a "highly rated external service provider" in internal capital models by different European and American Supervisors. In particular, it has seven framework service agreements with the ECB related to internal models and is the highest rated provider in the capital area.
- 2. Regulatory modeling. MS has extensive experience in modeling: (i) credit risk (IRB, IFRS 9 & CECL, stress testing, others), (ii) market risk, CCR and IRRBB (VaR, pensions, xVA); (iii) ALM and liquidity; (iv) residual value; and (v) economic capital, among others.
- 3. Independent validation. MS collaborates with different institutions as an independent supervisor of internal models, verifying compliance with regulatory requirements (e.g., FRB Capital Rule, SR11-7, CRR, EBA, ECB Guidance on internal models...) to obtain approval from regulators (e.g., FRB, OCC, ECB, DNB, Bundesbank...).
- 4. Experience in the design and implementation of capital calculation engines. MS has extensive experience in supporting institutions in the design and implementation of capital calculation and reporting solutions (including our proprietary MIR and SIRO tools, already adapted to BIS IV), as well as in the execution of capital impact analysis exercises and optimization.
- 5. Specialized team. MS has a team of more than 1,000 experts in the field of risk and capital management (modelling, regulation, impacts, information systems, reporting...), combining quantitative and technical expertise with strong regulatory knowledge.





AIRB	Advanced Internal Rating-Based
AOCI	Accumulated Other Comprehensive Income
BCBS	Basel Committee for Banking Supervision
CCR	Counterparty Credit Risk
CEM	Current Exposure Method
CRR III	Capital Requirements Regulation III
CVA	Credit Valuation Adjustment
ECB	European Central Bank
ERBA	Expanded Risk-Based Approaches
ESG	Environmental, Social, and Governance
FDIC	Federal Deposit Insurance Corporation
FED	Federal Reserve System
GSE	Government-Sponsored Enterprise
G-SIB	Global Systemically Important Bank
ILM	Internal Loss Multiplier

IMA	Internal Models Approach
000	Office of the Comptroller of the Currency
OTC	Over-the-counter
PSE	Public sector entity
RWA	Risk-weighted assets
SA	Standardized Approach
SFT	Securities financing transactions
VaR	Value-at-risk
WSTWF	Weighted short-term wholesale funding



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