



RGA International Reinsurance Company dac  
Singapore Branch

**MAS Notice 124 Public Disclosures**  
for the year ended December 31, 2020

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## **Overview of this document**

The Monetary Authority of Singapore (“MAS”) requires certain disclosures to be made which enable market participants to assess information on a business’ risk profile, performance, capital and risk management procedures. This document is designed to provide these disclosures and applies to RGA International Reinsurance Company dac Singapore Branch, and to its ultimate parent company, Reinsurance Group of America, Incorporated.

### **a) Company profile**

#### **Reinsurance Group of America, Incorporated (RGA)**

Reinsurance Group of America, Incorporated (“RGA”) is an insurance holding company, the principal assets of which consist of several reinsurance operating companies and their branches, including RGA International Reinsurance Company dac.

RGA was formed on December 31, 1992 and has since grown to become a leading global provider of traditional and non-traditional life and health reinsurance with operations in the United States, Latin America, Canada, Europe, Africa, Asia, and Australia.

A FORTUNE 500 company, RGA has been listed on the New York Stock Exchange since 1993 (NYSE: RGA). As of December 31, 2020, RGA had approximately \$3.5 trillion of life reinsurance in force, consolidated assets of \$84.7 billion, and total annual revenues of \$14.6 billion.

#### **RGA International Reinsurance Company dac (RGAI)**

RGAI was established in Ireland in 2003 as a wholly owned subsidiary of ultimate parent company RGA Inc. It is regulated by the Central Bank of Ireland and operates throughout Europe through a branch network. In November 2015, RGA established a branch office in Singapore, RGA International Reinsurance Company dac Singapore Branch.

RGAI is a wholly owned subsidiary of RGA Americas Reinsurance Company, Ltd., a Bermudian reinsurance company which is 100% owned by RGA Inc.

RGAI has received an ‘AA-’ issuer credit and financial strength rating from Standard and Poor’s. More information is available on the company’s website, [www.rgare.com](http://www.rgare.com), or by clicking [here](#).

#### **RGA International Reinsurance Company dac Singapore Branch (RGA Singapore)**

RGA Singapore offers insurers a comprehensive line of products and services, including individual life reinsurance, group life reinsurance, health reinsurance, living benefits reinsurance (critical illness, long-term care, and related risks), facultative and electronic underwriting, risk management, claims support, and product development.

### **b) Corporate governance framework and management controls**

#### **RGA International Reinsurance Company dac**

RGAI is committed to ensuring an effective system of governance is in place to provide for sound and prudent management of the business. The governance structure has been developed giving due regard to the nature, size, and complexity of the company and is in accordance with the European Solvency II Directive and the Central Bank of Ireland’s Corporate Governance Requirements for Insurance Undertakings 2015.

The RGA Board of Directors is responsible for the corporate governance framework and reporting to the ultimate parent, RGA Inc. The Board has established appropriate corporate governance principles and policies, and ensures the company is managed in accordance with those principles and policies. Its Audit Committee and Investment Committee are each chaired by an independent non-executive director while the Risk Management and Compliance Committee is chaired by a non-executive director. These committees receive regular updates from control function holders,

including the Chief Risk Officer, Head of Actuarial Function, Head of Compliance, Head of Internal Audit, Head of Finance and the Head of Investments.

The Managing Director of RGAI, based in Ireland, is responsible for the governance and operations of the company and reports directly to the Board on matters of corporate governance. Individual branch managers are responsible for the activities of their local teams, which typically consist of the client-facing business development and underwriting staff. Each branch has a clearly defined mandate and authorities delegated from the Board within which it operates.

RGAI's control framework is structured to ensure that risks are identified and appropriately managed and that internal controls are in place and operating effectively. The control function holders attend meetings of the committees as appropriate to report on their functional area:

- The Chief Risk Officer (CRO) is responsible of the implementation of RGAI's risk management framework. The CRO reports to the Managing Director and to the Risk Management and Compliance Committee on all matters of risk management.
- The Head of Actuarial Function (HoAF) is responsible for the coordination and monitoring of the evaluation of technical provisions, including methodology, assumptions, data, and reporting. The HoAF also supports the risk management function.
- The Head of Compliance is responsible for providing assurance that the compliance risks of RGAI are appropriately managed and identified.
- The Head of Internal Audit is responsible for auditing the risk management control and governance processes.
- The Head of Finance is responsible for monitoring the financial risks.
- The Head of Investments is responsible for management of Investments.

## **RGAI Singapore**

RGAI Singapore is committed to ensuring an effective system of governance is in place for the branch and is aligned with that of RGAI. The governance structure for the branch has been developed giving due regard to the Monetary Authority of Singapore's requirements.

As Chief Executive, Andy Hui (effective from 1 May 2017) has responsibility for RGA Singapore, and reports to the Managing Director of RGAI. A local Associate Director for Finance has responsibility for the RGA Singapore finance function including regulatory reporting. The local Head of Compliance has responsibility over the corporate and regulatory compliance for the branch. The Appointed Actuary function is outsourced to Willis Towers Watson, Singapore.

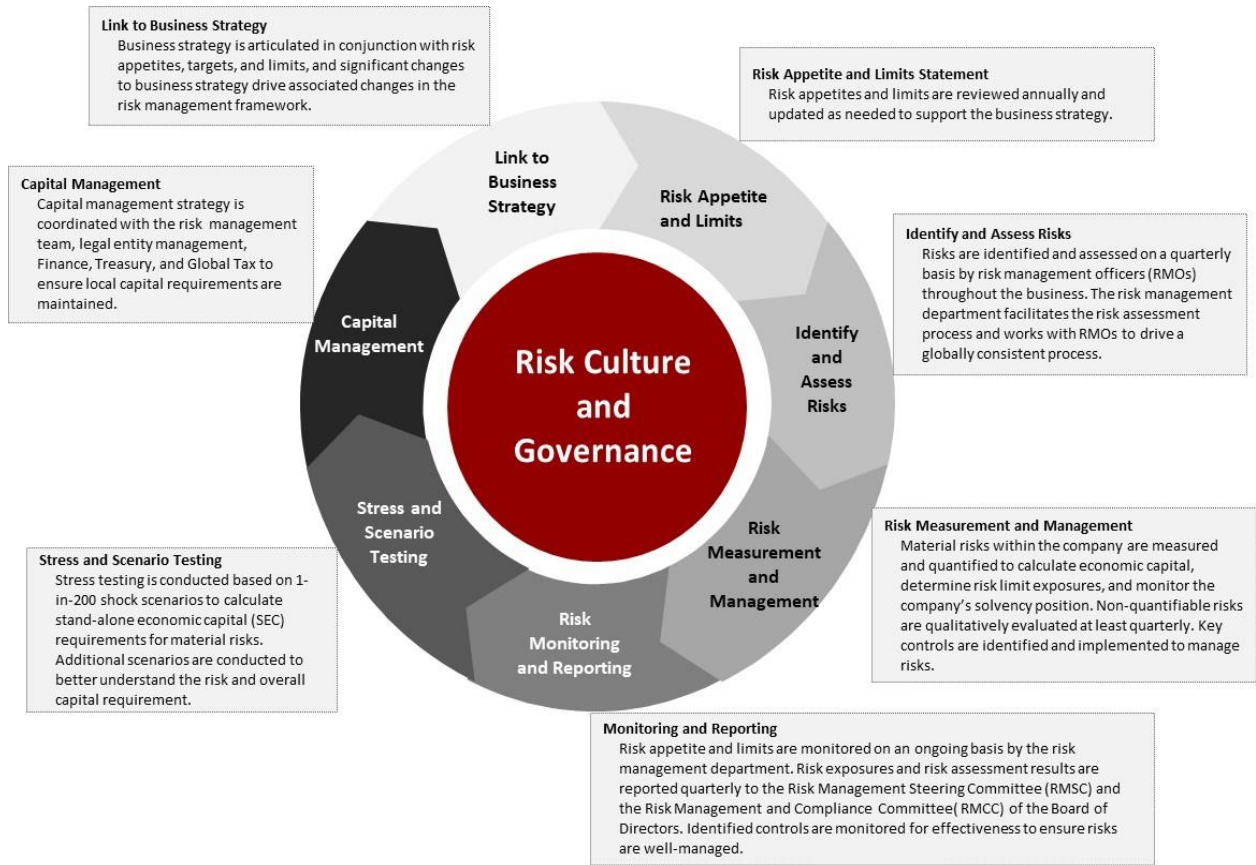
RGAI Singapore is supported by RGAI and other RGA Group companies. These relationships are governed by services agreements under the responsibility of Andy Hui. These arrangements comply with the MAS's Guidelines on Outsourcing.

## **c) Risk management and asset-liability management**

### **RGAI Risk Framework**

Risk management is integrated within the business planning and strategy setting and is aligned to risk appetite. Through the management of common risks across the enterprise via the implementation of a robust risk assessment process, RGAI is able to improve capital deployment and resource allocation and reduce operational losses and surpluses as well as protect its reputation and brand through an enhanced understanding of risks while feeding into the decision making process. The goal is to have a robust risk governance framework with transparency of risks to Senior Management and the Board of Directors, to enable improvements in performance and the ability to establish competitive advantages while optimising the cost of risk management. The RGAI framework closely follows the Enterprise Risk Management (ERM) Framework illustrated in the pin

wheel below. RGAI's ERM Framework, its components and associated processes are adopted and implemented within RGA Singapore.



## Risk Culture and Governance

A Group-wide risk management culture is the backbone that holds the ERM framework together, embedding risk management in all of the Group's business processes in accordance with its risk philosophy. Risk culture plays a prominent role in the effective management of risks that RGAI and RGA Singapore assumes. RGAI's and RGA Singapore's risk culture is focused on prudent risk management and the application of established best practices.

RGAI's risk management activities and all associated processes entail strong Board governance. Through the facilitated and ongoing risk monitoring process, review and continuous improvement, RGAI encourages a culture of sharing and open communication. A positive risk culture stems from personal accountability and responsibility where everyone is aware of what they need to be doing. This positive culture is further enhanced by ensuring that as many staff as possible receive regular enterprise risk management training and remain at the forefront of latest thinking. A rigorous annual training program is undertaken by the Risk Management Function across all countries within RGAI, including the RGA Singapore, reinforcing the message of openness and accountability.

## Risk Assessment Process

In order to ensure that senior management and risk oversight committee members receive accurate risk information, RGAI assigns roles and responsibilities for risk management in a fashion that reflects the complexities inherent in its global and regional business model.

The Risk Management Function facilitates the regular risk assessment process as described in the RGAI's ERM Framework. The process followed is performed using a consistent risk assessment methodology across all offices.

In summary the Risk Assessment process encompasses:

- Risk Identification.
- Risk Measurement.
- Risk Management.
- Risk Monitoring.
- Risk Reporting.

## Risk Policy Framework

The Enterprise Risk Management Framework at RGAI builds off three key policies. These include the Risk Management Strategy, Enterprise Risk Management Framework, and the Risk Appetite and Limits Statement.

## Roles and Responsibilities

- **Board of Directors:** Through the Risk Management and Compliance Committee ("RMCC" a Board of Directors Committee) the Board oversees the management of the RGAI's ERM program and policy. The RMCC is a committee of the RGAI Board. The Board and RMCC meets quarterly.
- **Risk Management Steering Committee ("RMSC"):** The objective of the RMSC is to support the Chief Risk Officer ("CRO") by understanding the risks undertaken by the organisation and to oversee the management of these risks. The RMSC meets quarterly and reports to the RMCC.

- **CRO (and team):** The ERM team ensures all risks facing RGAI are prudently managed and material risks are reported regularly to management. Responsible for embedding risk management into RGAI, promoting risk awareness and a risk culture conducive to best practice risk management in line with RGAI's risk philosophy. An equivalent and complementary Risk function is also implemented within RGA Singapore.
- **Singapore Branch Audit, Risk Management and Compliance Committee (ARMC):** The ARMC acts in an advisory capacity and is charged with oversight responsibilities over the Branch with regards to management, accounting, investments, reporting, risk management and compliance practices of the Branch. The ARMC convenes quarterly and is chaired by the Compliance Officer of RGA Singapore. The ARMC reports to the Board via the Managing Director of RGAI.
- **Management:** RGAI's management is responsible for managing all risks taken by RGAI.
- **Associates ("staff"):** Workforce members form the first line of defence and their involvement is critical for interweaving risk management with daily activities including the identification and escalation of emerging risks.

## Risk Taxonomy

RGAI's risks are categorised in a Risk Taxonomy with five Risk Types (Level 1) of Insurance, Market & Credit, Capital, Operational and Strategic and corresponding Risk Categories (Level 2) and Sub-Risks (Level 3). This is in line with industry practice and fits well in the way that RGAI manages and quantifies its risks and calculates its economic capital.

The definitions of the Risk Types are as follows:

- **Insurance:** The risk of lower or negative earnings and potentially a reduction in enterprise value due to a greater amount of benefits and related expenses paid than expected, or from adverse policyholder or client behaviour.
- **Market and Credit:** The risk of lower/negative earnings and potentially a reduction in enterprise value due to unexpected changes in market prices or volatilities of market prices of an individual asset. Note: Market risks include Policyholder Behaviour related to market changes.
- **Capital:** The risk of lower/negative earnings, potential reduction in enterprise value and/or ability to conduct business due to insufficient financial capacity.
- **Operational:** The risk of lower/negative earnings and a potential reduction in enterprise value caused by unexpected losses associated with inadequacy or failure on the part of internal processes, people and systems or from external events.
- **Strategic:** The risk related to planning, implementing and managing RGAI's strategic business model.

## **Asset-Liability Management (ALM)**

Liability cash flows are generated on a best-estimate basis by currency, with corresponding scenario analysis if the liability has features or options that could materially change the liability cash flow profile. This best-estimate liability is compared to assets backing the liability in the same currency on multiple metrics. This comparison results in a target duration and range for the asset portfolio(s).

Portfolio duration is tracked relative to targets within RGA's compliance system, which notifies portfolio management when portfolio duration falls outside the target range. The target duration and range are impacted by the amount of assets relative to the amount of liabilities, with any surplus assets having a broader acceptable duration range but shorter target duration than the liabilities, generally. The analysis of liquidity strain informs asset allocation. As the invested assets are entirely cash and public securities, liquidity is more than sufficient given existing liabilities.

The optimization process is primarily based on an economic best-estimate perspective. The impacts on a GAAP-accounting basis and the relevant statutory basis are evaluated in parallel to assure acceptable results from all perspectives.

### **d) Quantitative and qualitative information on reasonably foreseeable material insurance risk exposures**

Information on these exposures for the RGA Group can be found in the "Risks Related to Our Business" section starting on page 23 of the 2020 RGA Annual Report, available by clicking [here](#).

### **e) Quantitative and qualitative information about technical provisions including future cash flows**

#### **Policy Liability**

The primary liabilities of RGA Singapore consist of risk premium mortality and morbidity business, under a series of premiums based on an increasing rate scale by policy year, which bears a reasonable relationship to the anticipated mortality pattern with a provision for profit.

The determination of policy liability is dependent on the assumptions made by RGA Singapore. Actual future experience may deviate from such estimates. RGA Singapore monitors the emerging experience by analyzing the loss experience from both internal claims reports and the external market data. Experience is closely reviewed on individual reinsurance contracts and ceding client company levels. Estimates are revised in light of emerging experience if appropriate.

#### **Reserving Approach**

The policy liability is calculated as the sum of the premium liability and the claims liability. Both liabilities are determined under the best-estimate basis with the provision made for any adverse deviation from the expected experience. The valuation of policy liability is carried out in compliance with the "Notice 133 Valuation and Capital Framework for Insurers" issued by the Monetary Authority of Singapore ("MAS").

#### **Premium Liability**

In terms of long-term businesses, a gross premium valuation ("GPV") is utilized in accordance with the regulations, with a certain floor imposed at treaty level. The reserve is calculated as the present value of future expected outgo less future income, from the projection model over the outstanding duration of the treaties.

The predominant mortality rate assumption is based on a certain percentage of the Singapore insured table S0408 to establish the best estimate assumptions with reference to past mortality analysis and the historical mortality claims experience. Provisions for Adverse Deviation (PAD) are added on top of the best estimate assumptions to come up with regulatory basis for base liability calculation.



The valuation interest rates are determined in accordance with MAS “Notice 133 Valuation and Capital Framework for Insurers” issued on the 28 February 2020. They are derived from the risk-free discount rates as at the valuation date corresponding to the currency of the reinsurance treaties.

In terms of renewable treaties, the premium liability shall be the higher of the unearned premium reserve (“UPR”) and the unexpired risk reserve (“URR”):

- UPR is calculated as the annualized premium multiplied by the outstanding duration as at the valuation date for each treaty.
- URR is determined as a certain percentage of the unearned premium, with the consideration of expected future claims payment, expenses expected to be incurred in administering policies and setting relevant claims, and provision made for any adverse deviation from the expected experience.

### **Claims Liability**

The claims liability is taken as an estimate for the incurred but not reported (IBNR) claims at the valuation date. It is based on expected mortality rates and the claim reporting lags between the insured and the ceding company, as well as the reinsurance statement lags between the ceding company and RGA Singapore.

### **f) Quantitative and qualitative information about capital adequacy**

#### **Capital Adequacy**

At 2020 year-end, RGA Singapore was compliant with the MAS capital requirements, with a 3774% capital-adequacy ratio. The 2019 CAR was 417%. The results are not directly comparable due to the change in the capital regime to RBC2.

Our statutory returns are published by the MAS on its Insurance Company Returns site, available by copying the hyperlink [here](#).

#### **Capital Assessment**

RGA Singapore monitors its regulatory solvency through the risk-based framework prescribed by MAS. The total risk requirements can be broken down into three components:

- C1: This component reflects the impact on policy liability calculation from various MAS prescribed shocks.
- C2: This component reflects market, credit and mismatching risk charges on both assets and liabilities.
- Operational Risk: This component covers the loss arising from complex operations, inadequate internal controls, processes and information systems, organisational changes, fraud or human errors (or unforeseen catastrophes including terrorist attacks).

Various risk charges from these components are considered in RGA Singapore’s regulatory capital model. The calculation is consistent with the MAS regulations.

### **g) Quantitative and qualitative information about its financial instruments and other investments**

The primary investment objective is to ensure adequate funds to meet reinsurance obligations. This is done through prudent risk management, diversification and achieving long-term return targets.

RGAI strives to take risks which are well-understood and well-priced. To that end, portfolio size, duration, and liquidity requirements are informed by targets arising from a robust ALM process, which informs investment policy and guidelines, as well as RGA’s compliance system. Operating within these bounds, the investment team focuses primarily on credit risk, searching for

opportunities in which solid fundamental credit analysis allows a determination of an excellent risk/reward profile. In addition, RGAI's investment policies state minimum rating requirements as well as prudent diversification among issuers and sectors. Capital for credit risk is held based on existing regulatory requirements as well as internal capital models. RGA Singapore's existing asset portfolio is rated AA on average based on S&P and/or Moody's ratings. RGA Singapore only invests in public fixed-income markets, where valuations are highly transparent.

**h) Quantitative and qualitative information on financial performance**

Information regarding the financial performance of RGA is available from the RGA website, [www.rgare.com](http://www.rgare.com), in the "About RGA" and "Investors" pages.

Information regarding the financial performance of RGA Singapore is available from MAS's Insurance Company Returns by copying the hyperlink [here](#), and ACRA's Bizfile by clicking [here](#).