

NAIC OWN RISK AND SOLVENCY ASSESSMENT (ORSA) GUIDANCE MANUAL

Maintained by the Group Solvency Issues (E) Working Group of the Financial Condition (E) Committee

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Date: December 4, 2017

To: Users of the NAIC Own Risk and Solvency Assessment (ORSA) Guidance Manual

From: Group Solvency Issues (E) Working Group

This edition of the NAIC *Own Risk and Solvency Assessment (ORSA) Guidance Manual* has been revised from the previous edition. The following summarizes the most significant changes since the December 2017 edition:

- 1. Added various updates throughout the Guidance Manual to incorporate additional elements deemed appropriate by state regulators including additions from International Association of Insurance Supervisors (IAIS) guidance to incorporate:
 - a. Enhancements related to the treatment and disclosure of liquidity and business strategies within the ORSA: and
 - b.<u>a.</u>Enhancements related to additional considerations relevant to Internationally Active
 Insurance Groups (IAIGs) as outlined in the Common Framework for the Supervision of
 IAIGs (ComFrame).
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 - <u>b.</u> Enhancements related to additional considerations relevant to Internationally Active
 <u>Insurance Groups (IAIGs)</u> as outlined in the Common Framework for the Supervision of IAIGs (ComFrame).

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The requirements outlined in this Manual are based on the requirements of the *Risk Management and Own Risk and Solvency Assessment Model Act* (#505). An insurer using this Manual should refer to the laws adopted by the insurer's state of domicile when determining its requirements for risk management, its Own Risk and Solvency Assessment (ORSA) and for preparing its ORSA Summary Report.

I. <u>Introduction</u>

The purpose of this Manual is to provide guidance to an insurer and/or an insurance group of which the insurer is a member (hereinafter referred to as "insurer" or "insurers") with regard to reporting on its Own Risk and Solvency Assessment (ORSA) [as required by the domestic state's version of the *Risk Management and Own Risk and Solvency Assessment Model Act* (#505)].

The ORSA, which is a component of an insurer's enterprise risk management (ERM) framework, is a confidential internal assessment appropriate to the nature, scale and complexity of an insurer conducted by that insurer of the material and relevant risks identified by the insurer associated with an insurer's current business plan and the sufficiency of capital resources to support those risks. As described below, an insurer that is subject to the ORSA requirements will be expected to:

- (1) Regularly, no less than annually, conduct an ORSA to assess the adequacy of its risk management framework, and current and estimated projected future solvency position;
- (2) Internally document the process and results of the assessment; and
- (3) Provide a confidential high-level ORSA Summary Report annually to the lead state commissioner if the insurer is a member of an insurance group and, upon request, to the domiciliary state regulator.

The ORSA has two primary goals:

- 1. To foster an effective level of ERM at all insurers, through which each insurer identifies, assesses, monitors, prioritizes and reports on its material and relevant risks identified by the insurer, using techniques that are appropriate to the nature, scale and complexity of the insurer's risks, in a manner that is adequate to support risk and capital decisions; and
- 2. To provide a group-level perspective on risk and capital, as a supplement to the existing legal entity view.

An insurer that is subject to the ORSA requirement should consider the guidance provided in this Manual when conducting its ORSA and compiling its ORSA Summary Report. As the process and results are likely to include proprietary and forward-looking information, any ORSA Summary Report submitted to the commissioner shall be confidential by state law.

A. Exemption

An insurer shall be exempt from maintaining a risk management framework, conducting an ORSA and filing an ORSA Summary Report, if:

- a. The individual insurer's annual direct written and unaffiliated assumed premium, including international direct and assumed premium but excluding premiums reinsured with the Federal Crop Insurance Corporation and the National Flood Insurance Program, is less than \$500 million; and
- b. If the insurer is a member of an insurance group and the insurance group's (all insurance legal entities within the group) annual direct written and unaffiliated assumed premium, including international direct and assumed premium but excluding premiums reinsured with the Federal Crop Insurance Corporation and the National Flood Insurance Program, is less than \$1 billion.

If the insurer does not qualify for exemption, upon the commissioner's request, and no more than once each year, an insurer shall submit to the commissioner an ORSA Summary Report that contains the information described in this Manual. If the insurer is not an IAIG with a US global group-wide supervisor this can be done as a combination of reports. For example, the property/casualty insurers within a group could be included in one ORSA Summary Report or combination of reports, and the life insurers within the same group could be included in another ORSA Summary Report or combination of reports, if those groups operate under different ERM frameworks. Notwithstanding any request from the commissioner, if the insurer is a member of an insurance group, the insurer shall submit the ORSA Summary Report(s) required by this Manual to the lead state commissioner of the insurance group. The lead state is determined by the procedures within the Financial Analysis Handbook.

If an insurer qualifies for exemption pursuant to paragraph a., but the insurance group of which the insurer is a member does not qualify for exemption pursuant to paragraph b., then the insurer may supply an ORSA Summary Report in any combination, as long as every insurer within the group is covered by the ORSA Summary Report(s).

If an insurer does not qualify for exemption pursuant to paragraph a., but the insurance group of which it is a member qualifies for exemption under paragraph b., then the only ORSA Summary Report that may be required is the report of that insurer. However, such exemption does not eliminate the requirement for any insurer that is subject to Model #505 to complete Section III – Group Assessment of Risk Capital and Prospective Solvency Assessment.

Notwithstanding the above exemptions, the commissioner may require the insurer to maintain an risk management framework, conduct an ORSA and file an ORSA Summary Report based on unique circumstances including, but not limited to, the type of business written, ownership and organizational structure, federal agency requests, international supervisor requests, regulatory concerns about rapidly growing concentration of risk or risk exposure.

A commissioner also may require the insurer to maintain a risk management framework, conduct an ORSA and file an ORSA Summary Report if the insurer has triggered an RBC company action level event, meets one or more of the standards of an insurer deemed to be in hazardous financial condition, or otherwise exhibits qualities of a troubled insurer, as determined by the commissioner.

If an insurer that qualifies for an exemption subsequently no longer qualifies for that exemption due to changes in premium, as reflected in the insurer's most recent annual financial statement or in the most recent annual financial statements of the insurers within the insurance group of which the insurer is a member, the insurer shall have one (1) year following the year the threshold is exceeded to comply with the ORSA requirements.

B. Application for Waiver

An insurer that does not qualify for exemption may apply to the commissioner for a waiver from the requirements of the ORSA based upon unique circumstances. The commissioner may consider various factors including, but not limited to, the type of business entity, and volume of business written and material reduction in risk or risk exposures. If the insurer is part of a non-exempted insurance group, the commissioner shall coordinate with the lead state commissioner and the other domiciliary commissioners in considering the request for a waiver.

C. General Guidance

The ORSA should be one element of an insurer's ERM framework. The ORSA and the ORSA Summary Report link the insurer's risk identification, assessment, monitoring, prioritization and reporting processes with capital management and strategic planning. Each insurer's ORSA and ORSA Summary Report will be unique, reflecting the insurer's business, strategic planning and approach to ERM. The commissioner will utilize the ORSA Summary Report to gain a high-level understanding of the insurer's ORSA. The ORSA Summary Report will be supported by the insurer's internal risk-management materials.

To allow the commissioner to achieve a high level understanding of the insurer's ORSA, the ORSA Summary Report should discuss three major areas, which will be referred to as the following sections:

- Section 1 Description of the Insurer's Risk Management Framework
- Section 2 Insurer's Assessment of Risk Exposure
- Section 3 Group Assessment of Risk Capital and Prospective Solvency Assessment

When developing an ORSA Summary Report, the content should be consistent with the ERM information that is reported to senior management and/or the board of directors or appropriate committee. While some of the format, structure and content of the ORSA Summary Report may be tailored for the regulator, the content should be based on the insurer's internal reporting of its ERM information. The ORSA Summary Report itself does not need to be the medium of reporting its ERM to the board of directors or appropriate committee, and the report to the board of directors or appropriate committee may not be at the same level of detail as the ORSA Summary Report.

In order to aid the commissioner's understanding of the information provided in the ORSA Summary Report, it should include certain key information. The ORSA Summary Report should identify the basis(es) of accounting for the report (e.g., generally accepted accounting principles, statutory accounting principles or international financial reporting standards) and the date or time period that the numerical information represents. The ORSA Summary Report should also explain the scope of the ORSA conducted such that the report identifies which insurer(s) are included in

the report. This may be accomplished by including an organizational chart. In subsequent years, the ORSA Summary Report should also include a short summary of material changes to the ORSA from the prior year, including supporting rationale, as well as updates to the sections listed above, if applicable.

The commissioner may develop a deeper understanding of the insurer's ERM framework upon examination or an annual risk-focused update. Additionally, as part of the risk-focused analysis and/or examination process, the commissioner may also request and review confidential supporting materials to supplement his/ her understanding of information contained in the ORSA Summary Report. These materials may include risk management policies or programs, such as the insurer's underwriting, investment, claims, asset-liability management (ALM), reinsurance counterparty and operational risk policies.

This Manual is intended to provide guidance for completing each section of the ORSA Summary Report. The depth and detail of information is likely to be influenced by the nature and complexity of the insurer and should be updated at least annually for the insurer. The insurer is permitted discretion to determine how best to communicate its ERM processes. An insurer may avoid duplicative information and supporting documents by referencing other documents, provided those documents are available to the regulator upon examination or upon request. In order to ensure that the commissioner is receiving the most current information from an insurer, the timing for filing the ORSA Summary Report during the calendar year may vary from insurer to insurer, depending on when an insurer conducts its internal strategic planning process. In any event, the ORSA Summary Report shall be filed once each year, with the insurer apprising the commissioner as to the anticipated time of filing.

The ORSA Summary Report shall include a signature of the insurer's chief risk officer or other executive having responsibility for the oversight of the insurer's ERM process attesting to the best of his/her belief and knowledge that the insurer applies the ERM process described in the ORSA Summary Report and that a copy of the ORSA Summary Report has been provided to the insurer's board of directors or the appropriate committee.

An insurer may comply with the ORSA requirement by providing the most recent report(s)¹ filed by the insurer or another member of an insurance group of which the insurer is a member to the commissioner of another state or to a supervisor or regulator of a foreign jurisdiction, if that report provides information that is comparable to the information described in this Manual. If a U.S. state insurance commissioner is the global group-wide supervisor of an IAIG, the U.S. state insurance commissioner should receive the ORSA Summary Report covering all material group-wide insurance operations. In addition, the insurer should work with U.S. global group-wide supervisor to identify the Head of the IAIG (using the guidance contained in the NAIC's Financial Analysis Handbook) and determine which non-insurance operations (if any) within the group should be included within the scope of the ORSA Summary Report. However, for all ORSA filers, the non-insurance operations that present material and relevant risks to the insurer should be included in the scope of the ORSA Summary Report.

¹Reports filed to foreign jurisdictions that are a report on an insurer's ORSA shall henceforth for purposes of this Manual be referred to as an "ORSA Summary Report,"

If the U.S. is not the global group-wide supervisor, the insurer may file ORSA Summary Reports encompassing, at a minimum, the U.S. insurance operations, as long as the lead state receives ORSA Summary Reports encompassing the non-U.S. insurance operations from the global groupwide supervisor. If an ORSA Summary Report encompassing the non-U.S. insurance operations is not provided by the global group-wide supervisor, it should be provided by the insurer. If the insurer files an ORSA Summary Report encompassing only the U.S. insurance operations, and in it the insurer states that the U.S. ERM framework is based on the insurers' global ERM framework, then the global ERM framework should be explained either within the U.S. ORSA Summary Report or in an ORSA Summary Report encompassing the non-U.S. insurance operations and be provided to the lead state at a time agreed to by the insurer and the lead state. If the report is in a language other than English, it must be accompanied by a translation into the English language. The commissioner should discuss with the global group-wide supervisor from the relevant foreign jurisdiction(s) the report received from the global group-wide supervisor A21-to inquire of any concerns and to either confirm that the report was compliant with the foreign jurisdiction's requirements or consistent with the applicable principles outlined in the International Association of Insurance Supervisors (IAIS) Insurance Core Principle (ICP) 16: Enterprise Risk Management (ERM), as well as this Manual to determine if additional information is needed. The commissioner will, where possible, avoid creating duplicative regulatory requirements for internationally active insurers.

In analyzing an ORSA Summary Report, the commissioner will expect that the report represents a work product of the ERM framework that include all of the material risks identified by the insurer to which an insurer or insurers (if applicable) is exposed.

The ORSA Summary Report may assist the commissioner in determining the scope, depth and minimum timing of risk-focused analysis and examination procedures. For example, insurers may have varying ERM frameworks, ranging from a business plan to a combination of investment plans and underwriting policies to more complex risk-management processes and sophisticated modeling. Insurers with ERM frameworks appropriate to their risk profile may not require the same scope or depth of review upon examination and analysis as those with less relatively comprehensive ERM frameworks. Therefore, the insurer should consider whether the ORSA Summary Report demonstrates the strengths of its framework, including how it meets the guidelines within this Manual for the relative risk of the insurer.

In addition to the ORSA Summary Report, the insurer should internally document the ORSA results to facilitate a more in-depth review by the commissioner through analysis and examination processes. Such review may depend on several factors, such as the nature and complexity, financial position and/or prioritization of the insurer, as well as external considerations such as the economic environment. These factors may result in the commissioner requesting additional information about the insurer's ERM framework through the financial analysis or examination processes. The information requested may include, but is not limited to, risk management policies and programs, such as the insurer's underwriting, investment, claims, duration or asset-liability management, as well as reinsurance counterparty or operational risk policies.

D. Maintenance Process

The following establishes procedures of the Group Solvency Issues (E) Working Group or its designated subgroup (collectively referred to as "Working Group") for proposed changes, amendments and/or modifications to the Manual.

- 1. The Working Group may consider relevant proposals to change the Manual at any conference call, interim or national meeting ("the meeting") throughout the year as scheduled by the Working Group.
- 2. If a proposal for suggested changes, amendments and/or modifications is submitted to, or filed with NAIC staff support, it may be considered at the next regularly scheduled meeting of the Working Group.
- 3. The Working Group publishes a formal submission form and instructions that can be used to submit proposals and is available on the Group's webpage. However, proposals may also be submitted in an alternate format provided that they are stated in a concise and complete format. In addition, if another NAIC committee, task force or working group is known to have considered this proposal, that committee, task force or working group should provide any relevant information.
- 4. Any proposal that would change the Manual will be effective January 1 following the NAIC Summer National Meeting (i.e. of the preceding year) in which it was adopted by the Working Group (e.g., a change proposed to be effective January 1, 2018 must be adopted by the Working Group no later than the 2017 Summer National Meeting) and the Fall National Meeting in which it was adopted by the NAIC.
- 5. Upon receipt of a proposal, the Working Group will review the proposal at the next scheduled meeting and determine whether to consider the proposal for adoption. If the proposal is to be considered by the Working Group it will be exposed for public comment. The public comment period shall be no less than thirty days and may be extended by the Working Group. The Working Group will consider comments received on each proposal at its next meeting and take action to revise, adopt, reject, refer or continue the consideration of the proposal and comments thereto. Proposals under consideration may be deferred by the Working Group until the following scheduled meeting. The Working Group may form an ad hoc group to study the proposal, if needed. The Working Group may also refer proposals to other NAIC committees for technical expertise or review. If a proposal has been referred to another NAIC committee, the proposal will temporarily be removed from the Working Group's agenda until a response has been received. At that time, it will be added back to the Working Group's agenda.
- 6. NAIC staff support will prepare an agenda inclusive of all proposed changes. The agenda and relevant materials shall be sent via e-mail to each member of the Working Group, interested regulators and interested parties and posted to the Working Group's webpage approximately 5-10 business days prior to the next regularly scheduled meeting during which the proposal would be considered.

- 7. In rare instances, or where emergency action may be required, suggested changes and amendments can be considered as an exception to the above stated process and timeline based on a two-thirds majority consent of the Working Group members present. Notwithstanding the foregoing, in no event may a proposal be adopted without an exposure for public comment.
- 8. NAIC staff support will publish the Manual on or about December 15 each year. NAIC staff will post to the Group Solvency Issues (E) Working Group and the NAIC Publications Web sites the current versions and any material subsequent corrections to these publications.

II. SECTION 1 – DESCRIPTION OF THE INSURER'S ENTERPRISE RISK MANAGEMENT FRAMEWORK

An effective ERM framework should, at a minimum, incorporate the following key principles:

- **Risk Culture and Governance** Governance structure that clearly defines and articulates roles, responsibilities and accountabilities; and a risk culture that supports accountability in risk-based decision-making.
- **Risk Identification and Prioritization** Risk identification and prioritization process that is key to the organization; responsibility for this activity is clear; the risk management function is responsible for ensuring that the process is appropriate and functioning properly at all organizational levels; key risks of the insurer are identified, prioritized and clearly presented.
- **Risk Appetite, Tolerances and Limits** A formal risk appetite statement, and associated risk tolerances and limits are foundational elements of risk management for an insurer; understanding of the risk appetite statement ensures alignment with risk strategy by the board of directors.
- Risk Management and Controls Managing risk is an ongoing ERM activity, operating at many levels within the organization.
- **Risk Reporting and Communication** Provides key constituents with transparency into the risk-management processes and facilitate active, informal decisions on risk-taking and management.

Section 1 of the ORSA Summary Report should provide a high-level summary of the aforementioned ERM framework principles, if present. The ORSA Summary Report should describe the main goals and objectives of the insurers' business strategy[A4] (for all insurance and non-insurance operations in scope)—and how the insurer identifies and categorizes relevant and material risks and manages those risks as it executes its business strategy. The ORSA Summary Report should also describe risk-monitoring processes and methods, provide risk appetite statements, and explain the relationship between risk tolerances and the amount and quality of risk capital. The ORSA Summary Report should identify assessment tools (feedback loops) used to monitor and respond to any changes in the insurer's risk profile due to economic changes, operational changes or changes in business strategy. Finally, the ORSA Summary Report should describe how the insurer incorporates new risk information in order to monitor and respond to changes in its risk profile due to economic and/or operational changes and changes in strategy.

The manner and depth in which the insurer addresses these principles is dependent upon its own risk-management processes. Any strengths or weaknesses noted by the commissioner in evaluating this section of the ORSA Summary Report will have relevance to the commissioner's ongoing supervision of the insurer, and the commissioner will consider the entirety of the risk management program and its appropriateness for the risks of the insurer.

III. SECTION 2 – INSURER ASSESSMENT OF RISK EXPOSURES

Section 2 of the ORSA Summary Report should provide a high-level summary of the quantitative and/or qualitative assessments of risk exposure in both normal and stressed environments for each material risk category in Section 1. This assessment process should consider a range of outcomes using risk assessment techniques that are appropriate to the nature, scale and complexity of the risks. Examples of relevant material risk categories may include, but are not limited to, credit, market, liquidity, underwriting and operational risks.

Section 2 may include detailed descriptions and explanations of the material and relevant risks identified by the insurer, the assessment methods used, key assumptions made, risk-mitigation activities and outcomes of any plausible adverse scenarios assessed. The assessment of each risk will depend on its specific characteristics. For some risks, quantitative methods may not be well established and, in these cases, a qualitative assessment may be appropriate. Examples of these risks may include certain operational and reputational risks. In addition, each insurer's quantitative methods for assessing risk may vary; however, insurers generally consider the likelihood and impact that each material and relevant risk identified by the insurer will have on the firm's balance sheet, income statement and future cash flows. Methods for determining the impact on future financial position may include simple stress tests or more complex stochastic analyses. When evaluating a risk, the insurer should analyze the results under both normal and stressed environments. Lastly, the insurer's risk assessment should consider the impact of stresses on capital, which may include consideration of risk capital requirements, available capital, as well as regulatory, economic, rating agency and/or other views of capital requirements.

The analysis should be conducted in a manner that is consistent with the way in which the business is managed, whether on a group, legal entity or other basis. Stress tests for certain risks may be performed at the group level. Where relevant to the management of the business, some group-level stresses may be mapped into legal entities. The commissioner may request additional information to map the results to an individual insurance legal entity.

Any risk tolerance statements should include material quantitative and qualitative risk tolerance limits and how the tolerance statements and limits are determined, taking into account relevant and material categories of risk and the risk relationships that are identified.

Because the risk profile of each insurer is unique, each insurer should utilize assessment techniques (e.g., stress tests, etc.) applicable to its risk profile. U.S. insurance regulators do not believe there is a standard set of stress conditions that each insurer should test. The commissioner may provide input regarding the level of stress that the insurer's management should consider for each risk category. The ORSA Summary Report should provide a general description of the insurer's process for model validation, including factors considered and model calibration. Unless a particular assumption is stochastically modeled, the group's management should set assumptions regarding the expected values based on its current anticipated experience, what it expects to occur during the next year or multiple future years, and consideration of expert judgment. The commissioner may provide input to an insurer's management on the assumptions and scenarios to be used in its assessment techniques. For assumptions that are stochastically modeled, the commissioner may provide input on the level of the measurement metric to use in the stressed condition or specify particular parameters used in the economic scenario generator. Commissioner

input will likely occur during the financial analysis process and/or the financial examination process.

By identifying each material risk category independently and reporting results in both normal and stressed conditions, insurer management and the commissioner are better placed to evaluate certain risk combinations that could cause an insurer to fail. One of the most difficult exercises in modeling insurer results is determining the relationships, if any, between risk categories. History may provide some empirical evidence of relationships, but the future is not always best estimated by historical data.

IV. <u>Section 3 – Group Assessment of Risk Capital and Prospective</u> <u>Solvency Assessment</u>

Section 3 of the ORSA Summary Report should describe how the insurer combines the qualitative elements of its risk management policy with the quantitative measures of risk exposure in determining the level of financial resources needed to manage its current business and over a longer term business cycle (e.g., the next one to three years). The group risk capital assessment should be performed as part of the ORSA regardless of the basis (group, legal entity or other subset basis) and in a manner that encompasses the entire insurance group. The information provided in Section 3 is intended to assist the commissioner in assessing the quality of the insurer's risk and capital management.

A. Group Assessment of Risk Capital

Within the Group Assessment of Risk Capital, aggregate available capital is compared against the various risks that may adversely affect the enterprise. The insurer should consider how the group capital assessment is integrated into the insurer's management and decision-making culture, how the insurer evaluates its available capital and how risk capital is integrated into its capital-management activities.

The insurer should have sound processes for assessing capital adequacy in relation to its risk profile and those processes should be integrated into the insurer's management and decision-making culture. These processes may assess risk capital through myriad metrics and future forecasting periods, reflecting varying time horizons, valuation approaches and capital management strategies (e.g., mix of capital). While a single internal risk capital measure may play a primary role in internal capital adequacy assessment, insurers may evaluate how risk and capital interrelate over various time horizons, or through the lens of alternative risk capital or accounting frameworks (i.e., economic, rating agency, and/or regulatory frameworks). This section is intended to assist the commissioner in understanding the insurer's capital adequacy in relation to its aggregate risk profiles.

The group capital assessment should include a comparative view of risk capital from the prior year, including an explanation of the changes, if not already explained in another section of the ORSA Summary Report. This information may also be requested by the commissioner throughout the year, if needed (e.g., if material changes in the macroeconomic environment and/or

microeconomic facts and circumstances suggest the information is needed for the ongoing supervisory plan).

The analysis of an insurer's group assessment of risk capital requirements and associated capital adequacy description should be accompanied by a description of the approach used in conducting the analysis. This should include key methodologies, assumptions and considerations used in quantifying available capital and risk capital. Examples might include:

Considerations	Description of Methodologies and Assumptions	Examples (not exhaustive)
Definition of Solvency	Describe how the insurer defines solvency for the purpose of determining risk capital and liquidity requirements.	Cash flow basis; balance sheet basis
Accounting or Valuation Regime	Describe the accounting or valuation basis for the measurement of risk capital requirements and/or available capital.	GAAP; statutory; economic or market consistent; IFRS; rating agency model
Business Included	Describe the subset of business included in the analysis of capital.	Positions as of a given valuation date; New business assumptions
Time Horizon	Describe the time horizon over which risks were modeled and measured.	One-year, multi-year; lifetime; run-off
Risks Modeled	Describe the risks included in the measurement of risk capital, including whether all relevant and material risks identified by the insurer have been considered.	Credit; market; liquidity; insurance; operational
Quantification Method	Describe the method used to quantify the risk exposure.	Deterministic stress tests; stochastic modeling; factor-based analysis
Risk Capital Metric	Describe the measurement metric utilized in the determination of aggregate risk capital.	Value-at-risk (VAR), which quantifies the capital needed to withstand a loss at a certain probability; tail- value-at-risk (TVAR), which quantifies the capital needed to withstand average losses above a certain probability; probability of ruin, which quantifies the probability of ruin given the capital held

Considerations	Description of Methodologies and Assumptions	Examples (not exhaustive)
Defined Security	Describe the defined security standard	AA solvency; 99.X% 1-
Standard	utilized in the determination of risk capital requirements, including linkage to business strategy and objectives.	year VAR; Y% TVAR or CTE; X% of RBC
Aggregation and	Describe the method of aggregation of	Correlation matrix;
Diversification	risks and any diversification benefits	dependency structure;
	considered or calculated in the group	sum, full/partial/no
	risk capital determination.	diversification

The approach and assessment of group-wide capital adequacy should also consider the following:

- Elimination of intra-group transactions and double-gearing where the same capital is used simultaneously as a buffer against risk in two or more entities;
- The level of leverage, if any, resulting from holding company debt;
- Diversification credits and restrictions on the fungibility of capital within the holding company system, including the availability and transferability of surplus resources created by holding company system level diversification benefits;
- The effects of contagion risk, concentration risk and complexity risk in the group assessment of risk capital; and
- The effect of liquidity risk, or calls on the insurer's cash position, due to micro-economic factors (i.e., internal operational) and/or macro-economic factors (i.e., economic shifts). The insurer should demonstrate its resilience against severe but plausible liquidity stresses and whether the current liquidity position is within any liquidity risk appetite and/or limits. The insurer should also describe the policies and processes in place to manage liquidity risk, as well as contingency funding or other plans to mitigate potential liquidity stresses.

 [A5]

The goal of the group capital assessment is to provide an overall determination of risk capital needs for the insurer, based upon the nature, scale and complexity of risk within the group and its risk appetite, and to compare that risk capital to available capital to assess capital adequacy. Group assessment of risk capital should not be perceived as the minimum amount of capital before regulatory action will result (e.g., the triggers in the *Risk-Based Capital (RBC) for Insurers Model Act* (#312)); rather, it should be recognized that this is the capital needed within a holding company system to achieve its business objectives.

B. Prospective Solvency Assessment

The insurer's capital assessment process should be closely tied to business planning. To this end, the insurer should have a robust capital forecasting capability that supports its management of risk over the planning time horizon in line with its stated risk appetite. The forecasting process should consider material and relevant changes identified by the insurer to the insurer's internal operations and the external business environment. It should also consider the prospect of operating in both normal and stressed environments.

The insurer's prospective solvency assessment should demonstrate it has the financial resources necessary to execute its multi-year business plan in accordance with its stated risk appetite. If the insurer does not have the necessary available capital (in terms of quantity and/or quality) to meet its current and projected risk capital requirements then it should describe the management actions it has taken (or will take) to remedy any capital adequacy concerns. These management actions may include or describe any modifications to the business plan or identification of additional capital resources.

The prospective solvency assessment is, in effect, a feedback loop. The insurer should project its future financial position, including its projected economic and regulatory capital to assess its ability to meet the regulatory capital requirements. Factors to be considered are the insurer's current risk profile, its risk management policy, and its quality and level of capital, including any changes to its current risk profile caused by executing the multi-year business plan. The prospective solvency assessment should also consider both normal and stressed environments.

While the prospective solvency assessment includes capital projections, the prospective solvency assessment should also include a discussion of prospective risks impacting the capital projections. This discussion should address whether risk exposures are expected to increase or decrease in the future and what steps the insurer plans to take that may change its risk exposures. The term "prospective" should pertain to both existing risks likely to intensify and emerging risks with the potential to impact the insurer in the future.

If the prospective solvency assessment is performed for each individual insurer, the assessment should take into account any risks associated with group membership. Such an assessment may involve a review of any group solvency assessment and the methodology used to allocate group capital across insurance legal entities, as well as consideration of capital fungibility; i.e., any constraints on risk capital or the movement of risk capital to legal entities.

V. ADDITIONAL EXPECTATIONS FOR INTERNATIONALLY ACTIVE INSURANCE GROUPS

This section identifies additional enterprise risk management expectations that are applicable to IAIGs with US group wide-supervisors and should be discussed in the ORSA Summary Report. These expectations are generally consistent with elements outlined in the IAIS ComFrame and have been incorporated into this manual as deemed appropriate by state insurance regulators.

As stated earlier in this document, an aggregated ORSA Summary Report should be filed at the Head of the IAIG level. The Head of the IAIG should ensure that the risk management strategy and framework A71 described in the ORSA encompass both the Head of the IAIG and the legal entities within the IAIG to promote a sound risk culture across the group.

The risk management strategy should be approved by the IAIG Board with regular risk management reporting provided to the IAIG Board or one of its committees.

The risk management framework should be integrated with the organizational structure of the IAIG and within its legal entities as appropriate to ensure that the decision making processes, business

operations and risk culture of the IAIG are consistently implemented. In addition, the framework should allow for the measurement of risk exposures of the IAIG against established risk limits on an ongoing basis in order to identify potential concerns as early as possible. This framework should cover, at a minimum:

- The diversity and geographical reach of IAIG activities;
- The nature and degree of risks in individual legal entities and business lines;
- The aggregation of risks across entities;
- The interconnectedness of legal entities;
- The level of sophistication and functionality of information and reporting systems in addressing key risks;
- The applicable laws and regulations of the jurisdictions where the IAIG operates.

The risk management framework should promote a sound risk culture across all legal entities of the IAIG by having policies and processes that include risk management training, address independence, create appropriate incentives for staff involved in risk management and encourage timely evaluation and open communication of emerging risks that may be significant to the IAIG and its legal entities.

The risk management framework of the IAIG should be reviewed at least annually to ensure that existing and emerging risks as well as changes in structure and business strategy are taken into account. Necessary modifications and improvements to the risk management framework should be made in a timely manner.

The IAIG's ORSA should explain how the risk management function, the actuarial function and the internal audit function are involved in the risk management of the IAIG. The ORSA should explain the main activities of each of these functions. Furthermore, the ORSA should describe how the risk management function remains independent from risk taking activities. The ORSA should describe how the actuarial function is involved in the risk assessment and management of the risks emanating from the legal entities, in determining the IAIG's solvency position, in any actuarial-related modeling in the ORSA and in the annual reporting to the IAIG Board of Directors on the risks posed to the IAIG. Finally, the ORSA should describe how the audit function provides an independent assessment and assurance to the IAIG Board of Directors of the operational effectiveness of the internal controls incorporated into the risk management framework.

The risk management strategy and framework of an IAIG should be as consistent as possible across the legal entities with material differences only due to supervisory requirements in the jurisdictions where the IAIG operates and the risks associated with the business conducted in those jurisdictions. Any material differences should be described in the ORSA. The framework should include:

- Strategies, policies and processes to manage risks effectively and in a cross-border context for at least insurance risk, market risk, credit risk, liquidity risk, concentration risk, operational risk, group risk and strategic risk. The investment policies should ensure that assets are properly diversified and asset concentration risk is mitigated across the IAIG;
- Mechanisms to keep track of intra-group transactions that have a significant impact on the IAIG, the risks arising from these transactions and the qualitative and quantitative restrictions on these risks. These intra-group transactions may include for example, loans, guarantees, dividend payments, reinsurance, transactions across different financial services

- entities within the IAIG and any activity undertaken by individual legal entities that may change the risk profile of the IAIG;
- An economic capital model to measure all relevant and material risks that the IAIG faces in different sectors, jurisdictions and economic environments. The model should estimate the amount of capital needed in reasonably foreseeable adverse situations. The results of the model, how the risks were aggregated in the model, how the diversification benefit was estimated and the underlying assumptions used in the model should be presented in the ORSA. The ORSA should show both the economic and the regulatory capital at the Head of the IAIG level. A discussion of the fungibility of capital and the transferability of assets within the group should also be included;
- Risk measurements that include stress and reverse stress testing and scenario analysis deemed relevant to the risk profile of the IAIG as well as the resilience of its total balance sheet against plausible macroeconomic stresses;
- Risk measurements that assess the aggregate investment counterparty exposures and the effect of severe but plausible stress events on those exposures. In addition, the IAIG should have an investment counterparty risk appetite statement to determine if the current exposures are within the risk appetite and this should be presented in the ORSA.

The risk management framework should include a series of mechanisms to manage the IAIG's liquidity risk and demonstrate the IAIG's resilience against severe but plausible liquidity stresses. These mechanisms include:

- A liquidity risk appetite statement and liquidity risk limits to determine if the current liquidity position of the IAIG is within the risk appetite and the limits;
- Strategy, policies and processes to manage liquidity risk;
- Liquidity stress testing;
- An adequate level of unencumbered highly liquid assets;
- Contingency funding to mitigate potential liquidity stresses.

The group-wide supervisor should determine whether to require that the IAIG develop a formal recovery plan that identifies in advance options to restore the financial position and viability of the group if it comes under severe stress. The full recovery plan is not expected to be included in the ORSA Summary Report; however the ORSA Summary Report should discuss at a high-level the severe stresses that would trigger a recovery plan and the recovery options available.

The risk management framework should be independently reviewed at least once every three years, in order to ascertain that it remains fit for purpose based on the risk profile, structure and business strategy of the IAIG. The review may be carried out by an internal or external body as long as it is not responsible nor involved in the risk management framework that it reviews.

V.VI. APPENDIX – GLOSSARY

Term	Definition
Available Capital	The amount of resources that an enterprise has at a given point in
	time under a defined valuation or accounting basis (e.g., economic,
	statutory, GAAP, or a combination) to support its business and

Term	Definition
	under the defined valuation represents the insurers assessment of
	the types of capital required to support its business.
Conditional Tail	A measure of the amount of risk that exists in the tail of a
Expectation (CTE)	distribution of outcomes, expressed as the probability weighted
[Also known as Tail	average of the outcomes beyond a chosen point in the distribution.
Value at Risk or TVaR]	Typically expressed as CTE (1-x), which would be calculated as
	the probability weighted average of the worst x% of outcomes. For example, CTE 95 is calculated as the probability weighted average
	of the worst 5% of outcomes, CTE 97 is the probability weighted
	average of the worst 3% of outcomes, etc. CTE can be used as a
	way of defining a particular security standard.
Correlation Matrix	A symmetric matrix specifying pairwise interactions between a set
	of variables or data. A correlation matrix is commonly applied to
	risks or capital amounts and is an important determinant of
	calculated <i>risk capital</i> , including levels of <i>diversification</i> .
Deficit Capital	If the amount of available capital is less than the determined risk
	capital of an enterprise, then the enterprise is said to have deficit
Defined Security	capital. Minimum threshold of available capital that a company wishes to
Standard	achieve or maintain, consistent with the company's business
Standard	strategy, risk appetite and risk tolerance.
Dependency Structure	Specification of the relationship between different variables.
	Commonly specified in a <i>correlation matrix</i> .
Diversification	The extent to which the combined impact of risks inherent to
	assets and liabilities is less than the sum of the impacts of each risk
D 11 G :	considered in isolation.
Double Gearing	Used to describe situations where multiple companies (typically
	parent and subsidiary) are using shared capital to buffer against
Excess Capital	risk occurring in separate entities. If the amount of <i>available capital</i> is greater than the determined
Execss Capital	risk capital of an enterprise, the enterprise is said to have excess
	capital.
Fungibility	Within a group context, the ability to redeploy available capital
	from one entity to another. Fungibility is reduced where the
	movement of available capital within the group is constrained or
	regulation prohibits it.
Group Capital	Group capital represents the aggregate available capital or risk
	capital for the entire group. It will be impacted by the interaction of the risks and capital of the individual entities within the group,
	with properties such as <i>diversification</i> , <i>fungibility</i> and the quality
	and form of capital being important drivers.
Internationally Active	An insurance holding company system meeting
Insurance Group	the following criteria:
	1. Premiums written in at least three countries;
	2. The percentage of gross premiums written outside the
	home country is at least ten percent (10%) of the insurance

Term	Definition
	holding company system's total gross written premiums;
	and 2.3.Based on a three-year rolling average, the total assets of the insurance holding company system are at least fifty billion dollars (\$50,000,000,000) or the total gross written premiums of the insurance holding company system are at least ten billion dollars (\$10,000,000,000).
Probability of Ruin	Likelihood of liabilities exceeding assets for a given time horizon.
Risk Appetite	Documents the overall principles that a company follows with respect to risk-taking, given its business strategy, financial soundness objectives and capital resources. Often stated in qualitative terms, a risk appetite defines how an organization weighs strategic decisions and communicates its strategy to key stakeholders with respect to risk-taking. It is designed to enhance management's ability to make informed and effective business decisions while keeping risk exposures within acceptable boundaries.
Risk Capital	An amount of capital calculated to be sufficient to withstand adverse outcomes associated with various risks of an enterprise, up to a pre-defined <i>security standard</i> .
Risk Capital Metric	Quantitative variable used to gauge risk.
Risk Exposure	For each risk listed in the company's <i>risk profile</i> , the amount the company stands to lose due to that particular risk at a particular time, as indicated by a chosen metric.
Risk Limit	Typically quantitative boundaries that control the amount of risk that a company takes. Risk limits are typically more granular than <i>risk tolerances</i> and may be expressed at various levels of aggregation: by type of risk, category within a type of risk, product or line of business, or some other level of aggregation. Risk limits should be consistent with the company's overall <i>risk tolerance</i> .
Risk Profile	A delineation and description of the material risks to which an organization is exposed.
Risk Tolerance	The company's qualitative and quantitative boundaries around risk-taking, consistent with its <i>risk appetite</i> . Qualitative risk tolerances are useful to describe the company's preference for, or aversion to, particular types of risk, particularly for those risks that are difficult to measure. Quantitative risk tolerances are useful to set numerical limits for the amount of risk that a company is willing to take.
Reverse Stress Test	Analysis of those scenarios that would render the insurer insolvent [A9].
Security Standard	The level of a <i>measurement metric</i> used to determine <i>risk capital</i> . It signifies the strength of capital, and in practice, should be chosen to be consistent with the <i>risk appetite</i> and <i>risk tolerance</i> .
Solvency	For a given accounting basis, the state where, and extent to which, assets exceed liabilities.

Term	Definition
Stochastic Analysis	A methodology designed to attribute a probability distribution to a
	range of possible outcomes. May use closed form solutions, or
	large numbers of scenarios in order to reflect the shape of the
	distribution.
Scenario Analysis	Analysis of the impact of possible future outcomes, based on
	alternative projected assumptions. This can include changes to a
	single assumption or combination of assumptions.
Stress Test	A type of scenario analysis in which the change in parameters is
	considered significantly adverse or even extreme.
Time Horizon	In the context of risk capital calculations, the period over which
	the impact of changes to risks is tested.
Value-at-Risk (VaR)	An estimate of the maximum loss over a certain period of time at a
	given confidence level.

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Appendix C – IAIG Risk Management Assessment Considerations

While the considerations provided in this template are generally applicable to all insurers/insurance groups filing an ORSA Summary Report, there are additional risk management assessment considerations for the supervision of Internationally Active Insurance Groups (IAIGs) that have been incorporated into this template. As such, U.S. lead states functioning as group-wide supervisors should document their assessment of specific IAIG risk management practices here, if not already addressed above.

- Based on the analyst's review of the ORSA Summary Report and any additional information received, assess whether the Head of the IAIG ensures that the risk management strategy and system-framework encompasses the levels of the Head of the IAIG and legal entities within the IAIG, promotes a sound risk culture, and covers:
 - diversity and geographical reach of activities;
 - nature and degree of risks in entities/business lines;
 - aggregation of risks across entities;
 - interconnectedness of entities; level of sophistication and functionality of IT/reporting systems at the group level; and
 - applicable laws and regulations.
- 2. Assess whether the risk management strategy is approved by the IAIG Board and implemented at the group level; with regular risk management reporting provided to the IAIG Board or one of its committees.
- 3. Assess whether the risk management function, the actuarial function and the internal audit function are involved in the risk management of the IAIG and which activities they perform.
- 3.4. Assess whether the risk management function coordinates and promotes consistent implementation of risk management practices at the group and legal entity level, with any material differences in practices being clearly documented and explained.
- 4.5. Assess whether the risk management function is adequately independent from risk taking activities.
- 5.6. Assess whether the head of the IAIG reviews, at least annually, the risk management system-framework to ensure that existing and emerging risks as well as changes in structure and business strategy are taken into account.

- Assess whether the group-wide risk assessment framework, or components thereof, is independently reviewed¹ at least once every three years, in order to ascertain that it remains fit for the risk profile, structure and business strategy of the IAIGpurpose.
- Assess whether necessary modifications and improvements are made to <u>the</u> risk management systems framework in a timely manner.
- 6.7. Assess whether the following key elements are appropriately incorporated and addressed within the IAIG's ORSA framework:
 - The ORSA should describe how risks are managed in a cross-border context across the IAIG. These risks should include at least: insurance risk, market risk, credit risk, liquidity risk, concentration risk, operational risk, group risk and strategic risk. The ORSA should also explain how assets are properly diversified and asset concentration risk is mitigated across the IAIG.
 - Mechanisms to keep track of intra-group transactions that have a significant impact on the IAIG, the risks arising from these transactions and the qualitative and quantitative restrictions on these risks.
 - The ORSA framework measures risks using an economic capital model that takes into account the risks faced in different sectors, jurisdictions and economic environments
 - The ORSA shows both the economic and the regulatory capital at the Head of the IAIG level and it includes a discussion of the fungibility of capital and the transferability of asset within the group
 - Risk measurement includes stress testing, including reverse stress testing and scenario analysis, as appropriate for its risk profile to demonstrate the resilience of its total balance sheet against plausible macroeconomic stresses
 - Risk measurement also includes an assessment of aggregate <u>investment</u> counterparty exposures and analyzes the effect of stress events on those exposures through scenario analysis or stress testing
 - The ORSA reports on the IAIG's management of liquidity risks and assesses its resilience against severe but plausible liquidity stresses to determine whether current exposures are within the liquidity risk appetite and limits
 - The ORSA demonstrates that the IAIG maintains an adequate level of unencumbered highly liquid assets in appropriate locations, as well as a contingency funding plan to mitigate potential stresses
 - The ORSA discusses at a high-level the severe stresses that would trigger a recovery plan and the recovery options available. The ORSA should also discuss how the management information systems are able to produce information relevant to the recovery plan on a timely basis.

¹ Independent review could be performed by internal audit function, if deemed independent from risk management functions of the group