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International Insurance Regulation 201: IAIS Development of Insurer Capital Standards

August 4, 2015 Webinar

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Moderator

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Introduction

The International Association of Insurance Supervisors (IAIS) is developing group solvency and capital standards for large multinational insurer groups that could have an impact on certain domestic and international insurers.

In turn, these standards could affect the price and availability of insurance products to businesses and consumers.

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Introduction

- The new IAIS solvency and capital standards will include:
 - A basic capital requirement (BCR) for global systemically important insurers (G-SIIs);
 - A higher loss absorbency (HLA) requirement for G-SIIs, applicable in addition to the BCR; and

An insurance capital standard (ICS) for internationally active insurance groups (IAIGs), which is part of the Common Framework for the Supervisions of IAIGs (ComFrame).



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IAIS – International Association of Insurance Supervisors

 International standards-setting organization that has been directed by the Financial Stability Board (FSB) to promote effective and globally consistent supervision of the insurance industry to maintain global financial stability.



■ G-SII – global systemically important insurer

Designation by the Financial Stability Board (FSB) of a multinational insurance group that could harm the global financial system if it were to become insolvent

Nine companies have been designated:

- United States: American International Group Inc., MetLife Inc., Prudential Financial Inc.
- China: Ping An Insurance (Group) Company of China Ltd.
- Europe: Allianz SE, Assicurazioni Generali SpA, Aviva plc, Axa SA, Prudential plc

 The FSB is currently considering criteria for designating reinsurers as G-SIIs.

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IAIG – internationally active insurance group

- Large international group that has:
 - Total assets of over \$50 billion and gross written premium exceeding \$10 billion; and
 - Premium written in three or more jurisdictions (with at least 10 percent of premium written outside the "home" jurisdiction
- Includes all nine G-SIIs
- The IAIS estimates that approximately 50 multinational insurance groups will be identified as IAIGs

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BCR – basic capital requirement

- Group capital framework created by the IAIS to measure risk associated with the assets and liabilities (insurance and non-insurance) of a G-SII
 - Minimum amount of capital a G-SII must hold
 - Deliberately simplistic design
- Finalized in 2014

Privately reported by G-SIIs to group-wide supervisors beginning in 2015



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HLA – higher loss absorbency

- Additional capital requirement being developed by the IAIS for G-SIIs, on top of the BCR, to reflect "their systemic importance in the international financial system"
- HLA consultation document was released for comments by the IAIS in late June 2015
- Comments are due August 21
- Expected to be finalized and approved by the IAIS in late 2015 and reported beginning in 2016 on a confidential basis

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ICS – insurance capital standard

- The ICS is a group capital standard focused on the overall solvency of IAIGs and G-SIIs.
 - It is not intended as an accounting standard or as a tool to measure or forecast earnings.
 - It is not intended to affect or replace existing arrangements or capital standards in local jurisdictions.
- Intended to be more risk sensitive and complex than the BCR.



- The initial ICS framework (Version 1.0) is expected to be completed in 2017 and reported beginning in 2018 on a confidential basis.
- The finalized ICS (Version 2.0) is targeted for adoption in 2019.
- It is expected that the ICS will replace the BCR as a foundation for the HLA.
- None of the BCR, HLA, or ICS would be legally required in the United States unless formally implemented by federal/state statute, regulation, or otherwise.

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Basic Solvency Principles Liz Brill, MAAA, FSA, JD



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- Both international and domestic policymakers are reviewing the BCR and the proposed ICS and HLA.
- To help guide them through this process, the Academy's Solvency Committee has created a comprehensive set of principles that we believe are essential to the development of effective group solvency and capital standards for insurers.

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These principles include:

- Creating a group solvency regime with clear regulatory purposes and goals
- Establishing metrics for standards that are useful to all relevant parties
- Promoting responsible risk management and encouraging risk-based regulation
 - Taking into consideration local jurisdictional environments



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- Making solvency standards compatible across accounting regimes
- Minimizing pro-cyclical volatility
- Presenting a realistic view of an insurance group's financial position and exposures to risk
- Using internally consistent assumptions in capital or solvency models
 - Focusing on a total asset requirement to ensure insurers can meet obligations and capital is accessible in times of stress

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- Demonstrating that capital is accessible during times of stress
- Adhering to these principles will help policymakers create and evaluate insurance capital standards that are appropriate for the insurance business model and do not adversely impact U.S. insurance markets or consumers.



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BCR Field Testing

- Utilized year-end 2013 balance sheet data and projected future cash flows
 - Point-in-time values were used instead of historical data
- 34 insurance groups covering a wide range of products and geographical markets
 Includes all nine G-SIIs
- Data collected used to inform BCR design, specific factors, and calibration levels

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BCR Field Testing Results

Average level of the BCR is:

- 75 percent of the prescribed capital requirement (PCR) for G-SIIs
- 67 percent of the PCR for all 2014 field testing volunteers



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$$BCR \ Required \ Capital = \alpha \left[\sum_{i=1}^{4} a_i \ TL_i + \sum_{i=1}^{4} b_i \ TNL_i + \sum_{i=1}^{4} c_i \ NT_i + \sum_{i=1}^{3} d_i \ A_i \right] + \sum_{i=1}^{n} NI_i$$

Source: IAIS BCR for G-SIIs, October 23, 2014

• Where:

- α (alpha) is the scalar (initially set at 100 percent) to determine the overall BCR level
- *a*, *b*, *c* and *d* represent the factors applied to the exposures.

Traditional life (TL), traditional non-life (TNL), non-traditional (NT), and assets (A) represent the exposures
Non-insurance (NI) reflects the charges provided by sectoral rules for non-insurance activities

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BCR segment	Proxy measure for risk exposure	Factor	or Factor value					
Traditional Life (TL)								
Protection life	Net Amount At Risk	a1	0.06%					
Participating products	Net Current Estimate	a2	0.6%					
Annuities	Net Current Estimate	a3	1.2%					
Other life	Net Current Estimate	a4	0.6%					
	Traditional Non-life (TNL)							
Property	Premium Measure	b1	6.3%					
Motor	Net Current Estimate	b2	6.3%					
Casualty	Net Current Estimate		11.3%					
Other non-life	Net Current Estimate		7.5%					
Non-Traditional (NT)								
Variable annuities	Notional Value	c1	1.2%					
Mortgage insurance	Mortgage insurance Risk in Force		4.0%					
GICS & Synthetic GICS	Notional Value	c3	1.1%					
Other non-traditional	Net Current Estimate	c4	1.3%					
Assets (A)								
Credit - investment grade	Fair Value	d1	0.7%					
Credit - non investment grade	Fair Value	d2	1.8%					
Equity, real estate & non-credit investment assets	Fair Value	d3	8.4%					

Source: IAIS BCR for G-SIIs, October 23, 2014

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Net amount at risk

- Net current estimate of cash flows (life) and reserves (non-life)
- Premium measure
- Notional value
- Risk in force
- Fair value

Source: IAIS BCR for G-SIIs, October 23, 2014

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Notional Value

The notional value:

- Represents the present value of those payouts that are contractually guaranteed to each policyholder as of the valuation date
- Is deterministic, independent of jurisdictional accounting standards, and always results in a positive exposure
 - Varies as the book of business ages and captures many of key contract terms



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The NI component of the BCR:

$$= \sum_{i=1}^{n} \text{Regulated banking req}_{i}$$
$$+ \sum_{i=1}^{n} \mathbf{X} * \text{Non-regulated banking req}_{i}$$
$$+ \sum_{i=1}^{n} \text{Securities and other req}_{i}$$

Where the summations are taken over by the appropriate number of entities

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BCR Method – Comparability

Market adjusted valuation (MAV) approach: IAIS specified discount curves

- Based on liquid interest rate swaps or government bonds and adjustment based on investment-grade corporate bond yields on the date of valuation
- The adjustment was 40 percent of the 10-year unadjusted corporate bond rate
- Further adjustments for being in the Eurozone and lack of corporate bond market
- Only provided for certain countries and G-SIIs

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BCR Method – Comparability

Current estimates (CE) without margins

Life

- Probability-weighted future cash flows
- Contract boundaries
- Assumptions experience and data quality
- Value of options and guarantees
- Policyholder behavior
- Management actions
- Use Generally Accepted Accounting Principles (GAAP)/ International Financial Reporting Standards (IFRS) if similar

Non-life

Discounted value of the claim liabilities held

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BCR Method – Comparability

- Difference in the IFRS/GAAP valuation and the CE due to margin over current estimate (MOCE) in capital resources for life
 - The exclusion of margins from liabilities increases core and total qualifying capital resources (QCR)
 - The BCR treatment of MOCE will help provide a comparable basis for the G-SIIs in the HLA
 - The treatment will be further investigated during the development of the ICS



BCR Method – Other Considerations

Diversification

Too complex to reflect in derivation of BCR, implicitly accounted for in calibration level

- Asset-liability matching (ALM) risk
 Factor in the BCR formula creates challenges because it may be too simple
- Calibration level

Targeted between prescribed and minimum capital requirement

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BCR Method – QCR

QCR are either core or additional

- Core capital is "comprised of qualifying financial instruments and other capital elements that contribute to financial strength, absorb losses both on a going-concern and winding-up basis and otherwise contribute to survival through periods when the G-SII is under stress"
- Examples are MOCE, surplus funds, and accumulated other comprehensive income (OCI)
 - Field testing data shows that approximately 83 percent of G-SII GAAP capital resources are classified as core

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BCR Method – QCR

- Additional capital is "comprised of qualifying financial instruments and other capital elements that protect policyholders in winding-up"
 - The key characteristics of capital instruments that qualify as additional capital are subordination and availability to absorb losses in winding-up
- Examples of excluded resources are goodwill and deferred tax assets (DTA) that rely on future income



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BCR ratio

Total QCR/ required capital

Capital composition limit

For the purposes of the BCR ratio, qualifying additional capital cannot exceed 50 percent of required capital



BCR Ratio

For G-SII volunteers

The reported total QCR represent 380 percent of the BCR and the core QCR are 332 percent of the BCR

For all volunteers

The reported total QCR represent 427 percent of the BCR and the core QCR are 384 percent of the BCR

Source: IAIS BCR for G-SIIs, October 23, 2014

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HLA

Henry Siegel, MAAA, FSA



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Background

- In July 2013, the IAIS published its assessment methodology and policy measures for G-SIIs, focusing on three main measures
 - Enhanced supervision, effective resolution, and HLA capacity
- The primary purpose of the HLA is to help reduce the probability and impact on the financial system of the distress or failure of a G-SII

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HLA Timeframe

Key Date	Milestone
August 21, 2015	Public Consultation on HLA ends
Sept/Oct 2015	HLA Proposal to be finalized and approved by IAIS
Oct/Nov 2015	Expected endorsement of HLA by FSB and G20
2016-2018	Confidential reporting of HLA and BCR to IAIS Ongoing refinement of HLA and BCR
	Ongoing field testing
From January 2018	BCR and HLA requirement applied to all G-SIIs
Late 2019	ComFrame, including ICS, adopted by IAIS
Post 2019	HLA reviewed based on ICS

Source: IAIS Public Background session "Higher Loss Absorbency Capacity for Global Systemically Important Insurers (G-SIIs)," July 8, 2015

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IAIS Definition of Systemic Risk

 "Systemic risk is the risk of disruption of financial services that is caused by impairment of all or parts of the financial system and has the potential for serious negative consequences for the real economy"



IAIS Position on Systemic Risk

- There is little evidence of traditional insurance either generating or amplifying systemic risk
- NT insurance and NI activities may generate or amplify systemic risk
- Differences between the insurance and banking business models need to be considered when assessing the systemic importance of insurance

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IAIS Position on Systemic Risk

- The time dimension is important in insurance (both in respect of business model and regulatory action) as runs on insurers are uncommon
- The insurance sector is susceptible to systemic risk generated in (or transmitted through) other parts of the financial sector



Basic Formula for HLA

HLA = Scale factor * $\beta x [(1 - \gamma) * \text{Uplifted BCR} + \gamma * \text{uplifted BCR NT} + \text{NI}]$

- Where:
 - β is the bucket factor applicable to the G-SII
 - Working assumption bucket factor is 10-20 percent
 - Describes the weight given to traditional vs. NT formulas
 - The scale factor is chosen such that the outcome for the combined HLA is the same as the full HLA formula (the formula with $\gamma = 0$)
 - NI factor is based on same approach but portion related to banks is limited to the relevant banking requirements.

Source: IAIS Public Background session

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Summary of Total HLA, Uplift, and BCR

- BCR insurance and BCR NI are as specified in the approved October 2014 BCR document
- Uplift insurance: 33 percent * BCR insurance
- Uplift NTNI: 33 percent * BCR NTNI
- HLA insurance: applies percentages from choices to exposure of (BCR insurance + Uplift insurance)
- HLA NTNI: applies HLA percentages from choices to exposure of (BCR NTNI + Uplift NTNI)

Source: IAIS Public Background session

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IAIS Public Background Session: Hypothetical Results

Bucket Factor	15%	15%	15%	15%	15%
Uplifted BCR	133.0	133.0	133.0	133.0	133.0
HLA – Full HLA Formula	20.0	20.0	20.0	20.0	20.0
Average weighting of NT and NI (Gamma)	0%	25%	50%	75%	100%
Traditional Req. Cap.	16.0	15.0	13.3	10.0	0.0
NT Required Capital	1.0	1.2	1.7	2.5	5.0
NI Required Capital	3.0	3.7	5.0	7.5	15.0
Total HLA Req. Cap	20.0	20.0	20.0	20.0	20.0
Traditional %	80%	75%	67%	50%	0%
NT %	5%	6%	8%	13%	25%
NI %	15%	19%	25%	38%	75%

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Source: IAIS Public Background session

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Academy Concerns

Rationale for size of HLA

- The rationale for chosen factors should be articulated and debated more fully: e.g.,
 - Bucket factor (10/15 percent used in examples)
 - Overall size of scale factor (15 percent used in examples)

Rationale for uplift

Should not try to anticipate eventual changes to BCR
BCR is too imprecise – may generate false negatives or positives



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Academy Concerns

Use of cliff for buckets

- Intent of the cliff is to help G-SIIs avoid increasing systemic activities
- Penalizes too heavily for minor changes
- Can encourage non-economic behavior
- Choice of Gamma (γ)
 - Should strongly emphasize NTNI insurance risks
 - How close to 100 percent should it be?



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Background: What Is the ICS?

Consolidated quantitative capital standard Includes non-insurance operations of the group Comparability across jurisdictions Establishes minimum standard Supervisors may set higher standards Not intended to replace or affect capital standards for underlying legal entities



Background: Ultimate Goal

Decision

In February 2015, IAIS Executive Committee agreed on an ultimate goal for the ICS:

"The ultimate goal of a single ICS will include a common methodology by which one ICS achieves **comparable**, **i.e. substantially the same**, **outcomes across jurisdictions**. Ongoing work is intended to lead to improved convergence over time on the key elements of the ICS towards the ultimate goal. Not prejudging the substance, the **key elements include valuation**, **capital resources and capital requirements**."



Background: How ICS Will Be Calculated



Valuation: MAV vs. GAAP+

ICS initially conceived as market-based total balance sheet approach:

- Market adjusted valuation
- IAIS views: A market-based approach is more comparable, consistent and risk-sensitive than GAAP



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Valuation: MAV vs. GAAP+

Agreement reached in 2014 to explore GAAP with adjustment approach (GAAP+)

- Simpler approach and may achieve the same ICS outcome; more reliant on audited financials
- There is a potential desire to adjust GAAP to bring it closer to a market-based total balance sheet; GAAP also varies among jurisdictions

Favored by U.S. regulators and many U.S. insurers

Field testing will explore reconciliation <u>between</u> MAV and GAAP+

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Valuation: Discounting of Insurance Liabilities

Current estimate

- The expected present value of all relevant future cash flows that arise in fulfilling insurance obligations using unbiased, current assumptions
- IAIS favors a current estimate based on discounting cash flows using a "risk free" external rate linked to sovereign rates for discount with a spread added to reflect illiquidity premium



Valuation: Discounting of Insurance Liabilities

Treatment of discounting in the United States:

- Life: GAAP based its discount mechanism on companies' own portfolio; SAP employs a discount based on more conservative statutory prescribed rates
- Non-life: Both GAAP and SAP loss reserves are generally undiscounted



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Valuation: MOCE

- GAAP MOCE: Significant diversity across jurisdictions in how liabilities are calculated → diversity in amount of margin across jurisdictions
- For ICS, there is desire to develop a margin in a consistent manner
 - Two classes of methods are being considered:
 - Transfer value
 - Prudence

For 2015 field testing (and likely for final ICS), margins held above this "consistent" MOCE will be included in qualifying capital resources

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Capital Resources: Definition

Capital resources represent the difference between assets and liabilities

- Provide loss absorbency on a going concern, in adverse circumstances, and during a winding-up for the purposes of policyholder protection and financial stability
- Two capital tiers are being considered:



Capital Resources: Principles for Categorization

Subordination

Extent to which and in what circumstances capital element is subordinated to rights of policyholders and non-subordinated creditors

Availability

- Extent to which capital element is fully paid and available to absorb loss
- Capital can be held anywhere within the group so long as it meets the requirements to be considered a capital resource

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Capital Resources: Principles for Categorization

Permanence

Period for which the capital element is available

Loss-absorbing capacity

Extent capital element absorbs losses and in which circumstances

Absence of encumbrances and/or mandatory servicing costs

Extent to which the capital element is free from mandatory payments or encumbrances

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Capital Requirements

ICS reflects all material risks

- Transfer of risk to third party leads to reduction "commensurate with extent of risk mitigation"
- To extent risk not quantified → addressed in ComFrame
- Key aspects of quantifying risk in ICS
 - Risk measure: 90 percent tail value at risk (TVaR) or 99.5 percent value at risk (VaR)
 - One-year time horizon
 - Prescribed, not minimum capital requirement

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A SAMPLE

Capital Requirements: Covered Risks



Capital Requirements: Covered Risks

- Catastrophe risk will not include only earthquake and tropical storm;
 - Will also include man-made events, a liability "cat" and exposure of life business to pandemic
- Market includes impact on both balance sheet and policyholder behavior
- Credit includes all counterparty risk
 Examples: bonds, loans, reinsurance, derivatives, etc.



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Capital Requirements: Covered Risks

Diversification will be nested, first within risk then between risks

- Will likely be by correlation matrix
- Credit for participating/profit sharing and adjustable products being considered



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Capital Requirements: Risk Measurement



Source: National Association of Insurance Commissioners

- Two approaches relied on most:
 - **Factor Based:** Factors applied to exposure measure
 - Stress Based: Requirement is difference between capital on unstressed and stressed balance sheets

There is possibility (in future) of alternatives to standard method:

Alternative factors, internal models, etc.

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Capital Requirements: Standard Method vs. NAIC RBC

Risk	ICS	RBC (Life)	RBC (P&C)
Mortality	Stress	Factor	
Longevity	Stress	Factor	
Morbidity / Disability	Stress	Factor	
Lapse	Stress	Factor	
Expense	Stress	Factor	
Premium	Factor		Factor
Claims reserves	Factor		Factor
Catastrophe	Model		Model(1)
Interest Rate	Stress	Factor(2)	
Equity	Stress	Factor(3)	Factor
Real Estate	Stress	Factor(3)	Factor
Currency	Stress		
Asset concentration	Factor	Factor(3)	Factor
Credit	Factor	Factor(3)	Factor
Operational	Factor	Factor(4)	Factor(4)

Source: National Association of Insurance Commissioners

Comparison of ICS to NAIC Risk Based Capital (RBC) (1) Currently not reflected but testing a model approach (2) Model used for fixed annuities (3) Model used for variable annuities with guarantees (4) Reflected implicitly in other charges with more explicit charge under development

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Additional Resources

- IAIS <u>BCR for G-SIIs</u>, October 23, 2014
- IAIS <u>HLA consultation document</u>, June 25, 2015
- IAIS <u>Risk-based Global ICS consultation document</u>, December 17, 2014
- Academy Essential Elements: Insurance Capital Standards
- Academy Capital Forum Webinar: International Insurance Regulation 101: IAIS



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