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Credit Default Charge In Solvency II: Loss Given Default

Counterparty Default Risk = 'Loss-given-default' x 'Probability of default'

Where:	
Probability of default	Representing the 1 in 200 years chance that the reinsurer will default
Loss-given-default	Representing the exposure that the cedant will have to the reinsurer after entering the reinsurance agreement.

The Loss Given Default

The LGD for Risk Mitigating Contracts (incl. reinsurance arrangements) should be evaluated in the SII framework according to the following formula:

LGD = max (0; 50% (Recoverables + 50%RM) - F.Collateral)



Credit Default Charge In Solvency II: Probability of Default

- In Europe it is very difficult for an insurer to operate without a rating. In Solvency II, a reinsurer's rating is used to calculate the Solvency Capital Requirement (SCR) charge for credit default risk. The credit default risk charge formula is based on probability of default, and this calculation is driven by the reinsurer's rating.
- To be recognised for Solvency II purposes, ratings must be assigned by rating agencies nominated by the European Securities and Markets Authority (ESMA). The ratings from these agencies are standardised as Credit Quality Steps:
- The table below presents mapping of ratings from the four main rating agencies that rate insurance entities into Credit Quality Steps:

Credit Quality Step	A.M. Best	Fitch	S&P	Moody's
1	A++ or A+	AAA to AA-		Aaa to Aa3
2	A or A-	A+ to A-		A1 to A3
3	B++ or B+	BBB+ to BBB-		Baa1 to Baa3
4	B or B-	BB+ to BB-		Ba1 to Ba3
5	C++ or C+ B+ to B-		B+ to B-	
6	C, C- , D, E, F, S	CCC+ and below		Caa1 and below



Credit Default Charge In Solvency II: Probability of Default

Solvency II reinsurers

• If a reinsurer is rated by a nominated rating agency, its single name exposure (exposures to undertakings which belong to the same corporate group shall be treated as a single name exposure) is calculated as follows:

Credit Quality Step	Rated Reinsurer's Probability of Default
0	0.002%
1	0.01%
2	0.05%
3	0.24%
4	1.20%
5	4.20%
6	4.20%

If a reinsurer does not have a rating from a nominated rating agency, but that reinsurer meets its Minimum Capital Requirement in Solvency II, the probability of default is calculated using its solvency ratio, as follows:

Solvency ratio	Rated Reinsurer's Probability of Default
196%	0.01%
175%	0.05%
150%	0.10%
125%	0.20%
122%	0.24%
100%	0.50%
95%	1.20%
75%	4.20%

Non-Solvency II reinsurers

- If the reinsurer is domiciled in a country whose solvency regime has equivalence status, and the reinsurer complies with the local solvency requirements but does not have a rating from a nominated rating agency, its probability of default is 0.50%.
- Any other reinsurer's probability of default is 4.20%.







Why do Insurers Seek Ratings?

Write more business

- Access to underlying business and new markets
- Some agents and policyholders only use "A" rated carriers
- May impact the availability and cost of reinsurance

Raise more capital

- May impact both demand for publicly-issued debt as well as its terms and conditions
- May facilitate the ability to raise capital or debt and reduce the cost of capital or debt

Have a competitive advantage

Favorable rating promotes their financial strength – many Insurance companies advertise this fact

Manage perception and investor behaviors

- An upgrade may positively influence the stock price
- A downgrade may result in a significant stock price reduction

Minimum Financial Strength Ratings are: A+ for a long tail business and A- for short tail business Debt Ratings

Issuer Credit Ratings





Financial Strength Rating Scales

AM Best	Moody's	Fitch	S&P
A++	Aaa	AAA	AAA
A++	Aa1	AA+	AA+
A+	Aa2	AA	AA
A+	Aa3	AA-	AA-
Α	A1	A+	A+
Α	A2	Α	Α
A-	A3	A-	A-
B++	Baa1	BBB+	BBB+
B++	Baa2	BBB	BBB
B+	Baa3	BBB-	BBB-
В	Ba1	BB+	BB+
В	Ba2	BB	BB
B-	Ba3	BB-	BB-
C++	B1	B+	B+
C++	B2	В	В
C+	В3	B-	B-
С	Caa1	CCC+	CCC+
С	Caa2	CCC	CCC
C-	Caa3	CCC-	CCC-
C-	Ca	CC	CC
D	С	С	CC
Е			R
F			

Below Investment Grade



Rating Agency Comparisons

	Standard & Poor's	AM Best	Fitch	Moody's	
Company Profile	Large National / Multinational Firms	Entire US Insurance Industry + Some International	High Profile Companies, Med malpractice focus	Large National / Multinational Firms	
International Focus	Significant	Emerging	Significant	Significant	
Primary Users	Capital Markets / Investors	Producers / Policyholders	Capital Markets / Investors	Capital Markets / Investors	
Analysis	Sustainable Earnings, Quantitative & Qualitative	More Historical, Quantitative & Qualitative	Quantitative & Qualitative	Quantitative (Scorecard Approach) & Qualitative	
Debt Ratings	#1 in the World	Some	In the Top 3	In the Top 3	

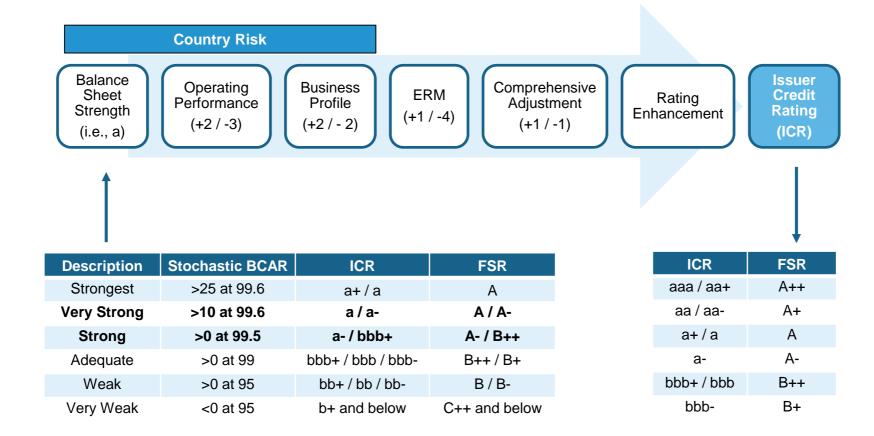






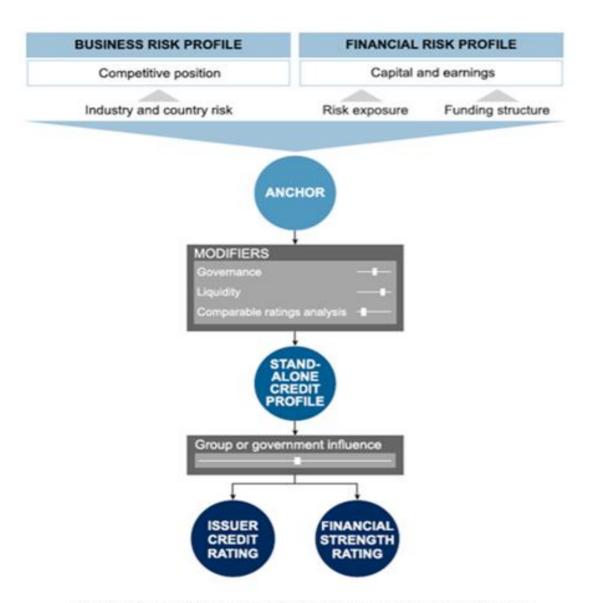
AM Best Insurance Ratings Methodology

- AM Best follows a building block rating approach which assesses each individual component pictured below.
- Balance Sheet strength sets a base Issuer Credit Rating (ICR) based on the company's BCAR score and other qualitative financial metrics.
- The final ICR is the foundation for the Financial Strength Rating (FSR).





Standard & Poor's Insurance Ratings Methodology



Source - S&P Global Ratings: Request For Comment: Insurers Rating Methodology

Summary of Criteria

- Applies to all global-scale insurers in the business of life, health, P&C and reinsurance
- Methodology consists of assessing the stand-alone credit profile (SACP) / group credit profile (GCP)
- SACP/GCP rests on eight rating factors:
 - Competitive Position
 - IICRA
 - Capital & Earnings
 - Risk Exposure
 - Funding Structure
 - Governance
 - Liquidity
 - Comparable ratings analysis
- SACP/GCP assessment is followed by group or government support evaluation which leads to the issuer credit rating (ICR) and financial strength rating (FSR) being published



Fitch Master Insurance Rating Criteria

Key Credit Factors

Operational Profile

Financial Profile

Other Factors & Criteria Elements

Industry Profile & Operating Environment	Business Profile	Capitalization & Leverage	Debt Service Capabilities & Financial Flexibility	Financial Performance & Earnings	Investment & Asset Risk	Asset / Liability & Liquidity Management	Reserve Adequacy	Reinsurance, Risk Mitigation & Catastrophe Risk	Corporate Governance & Management	Ownership	Transfer & Convertibility / Country Ceiling	Non- Insurance Attributes
Regulatory Oversight	Competitive Positioning	Prism Capital Model	Fixed-charge & Interest Coverage	Return on Equity	Risky Assets Ratio	Liquid Assets / Reserves	Profile: Reserve Leverage, Reserves / Incurred Loss	Reinsurance Recoverables / Capital	Effective	Public: Stock	Neutral	Neutral
Technical Sophistication of Insurance Market; Diversity & Breadth	Operating Scale: Business Risk Profile	Financial Leverage Ratio	Statutory Coverage	Combined Ratio	Equity / Capital	Liquid Asset Ratio	Growth: Paid / Incurred Loss, Change Ratio of Reserves / NEP	1-250 or 1-200 Year Annual Aggregate Cat Losses / Capital	Some Weakness	Public: Mutual	Favorable	Favorable
Competitive Profile	Operating Scale: Diversification	Total Financing & Commitments Ratio	Cash Coverage	Operating Ratio	Below Investment- Grade Bonds / Capital	Duration Gap	Experience: One- & Five-Year Development	NPW / GPW	Ineffective	Private: General	Unfavorable	Unfavorable
Financial Markets Development	Time in Business Constraint	Operating, Net & Gross Leverage	Access to Capital Markets	Return on Assets	Sovereign Investment Concentration	Cash & Equivalents / Policyholder Liabilities	Adequacy: Carried Reserves / Midpoint	Largest Net Single Risk Limit to Surplus		Private: Sovereign		
Country Risk Potential Migration of Country Risk Regulatory Solvency Ratios Asset Leverage	Backup or Contingent Funding	EBITDA / Revenue		Operating Cash Flow Ratio	Reserve Development to Capital, NEP or MCL	Single Risk Par / Capital		Private: Supranational				
		Asset Leverage	Parent as Sole Source	Medical Benefit Ratio		Cash & Invested Assets / Medical Claim Liabilities (MCL)	Number of Days Claims in MCL	Net Notional Par / Gross Notional Par Insured		Private: Corporate		
				Growth		Holding Company Liquidity				Private: Bank / FI		

Note: Key Credit Factors weighted; forward-looking elements such as forecasting, rating sensitivity analysis and stress testing techniques may also be applied Source: Fitch Ratings



Source: Moody's Investors Service

Moody's Insurance Ratings Methodology





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