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The Cost of Improving the Solvency Margin

Quota Share Reinsurance vs. Subordinated Debt

Dr. Stefan Sperlich, Advanced Solutions



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*) For the entire example we consider a Whole Account Quota Share on occurrence year basis.

^{**)} This premium cession factor is estimated according to Solvency II market average.

CoC = Cost of Capital, more specifically cost of new subordinated debt // P = underlying premium volume // m = reinsurer's margin

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Comparing the Cost of Improving the Solvency Margin Quota Share Reinsurance vs. Subordinated Debt

When is Q/S reinsurance the more cost-effective solution?

⇔ If the costs for Q/S reinsurance are less than the costs of issuing new subordinated debt.



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^{**)} The median of EC divided by P according to Solvency II market average is 132%.

SII median: Q/S outperforms costs for margins less than 60% of CoC

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^{*)} Required volume of debt resp. premium cession volume to improve the Solvency Margin by 10%.

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When does Q/S reinsurance become most efficient?

 \Leftrightarrow The leverage of Q/S reinsurance on the RC depends on various factors.



The larger the ratio of Nonlife Risk to RC the higher the leverage



Comparing Qualitative Factors - other than costs

Quota Share Reinsurance vs. Subordinated Debt

	Subordinated Debt	Quota Share Reinsurance
Risk Transfer	Increased financial leverage	 No increase in debt to capitalisation ratios: loss absorbing character through transfer of insurance risk
Flexibility	 No flexibility after issuance: Nominal value, period and costs are fixed for several years (unlimited for Tier 1 and at least 10/5 years for Tier 2/3 capital, not considering exit options) 	 Full flexibility: Annual or quarterly adjustments of cession, commission and risk transfer are possible; cancellation after one year is possible
Volume	Often only high volumes are available	Large and small premium volumes possible +
Issuing Costs	 Additional fixed costs at issuance (legal costs, listing, road show, bank fees,) 	No additional costs at issuance
Availability	Limited availability depending on current capital market conditions and the individual access to capital markets	Fast and lean availability
Others	 Negative rating implications possible Debt covenants 	 Positive acknowledgement by rating agencies in general No debt covenants

Qualitative comparison: Subordinated debt outnumbered by Q/S

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- Assumptions:
 - According to Solvency II market average, the factor $\frac{1}{40\%} * (1 \frac{1}{(1+x\%)})$ approximates the required cession for a Whole Account Quota Share to reduce RC by $1 \frac{1}{1+x\%}$, improving the Solvency Margin by x%.
 - This factor is a rough approximation for the average non-life insurance company and can vary substantially.

The exact factor for your company can be calculated individually and we are happy to assist you with this task!

- Remarks on Q/S reinsurance:
 - In contrast to subordinated debt, Q/S reinsurance additionally provides for insurance risk transfer.
 - The reinsurer's margin has two components:
 - 1) admin expenses and the reinsurer's allocated risk capital.
 - 2) expected loss and volatility from the assumed insurance risk.



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