Deloitte Insurance Week Where Reinsurance Meets

Regulatory Comparison of Different Jurisdictions

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Panelists





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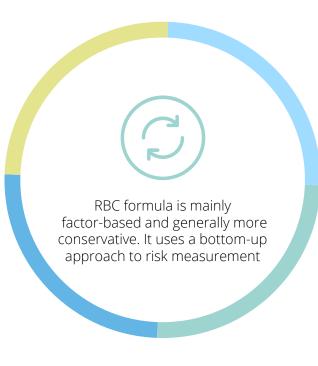
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Current State in Regulations Brief Overview

US Risk-Based Capital (RBC)

In the US, insurance is regulated at the state level. The National Association of Insurance Commissioners develops model laws and regulations to promote uniformity among state regulators.



Reserving requirements

Statutory reporting is used as the starting point where most assets and liabilities are held at book-value. Liabilities are determined using prescribed assumptions and valuation methodologies which can either be formulaic or principle-based.

Capital Requirements

$$ACL RBC = 0.5 \times [C_0 + C_{4a} + \sqrt{(C_{1o} + C_{3a})^2 + (C_{1cs} + C_{3c})^2 + C_2^2 + C_{3b}^2 + C_{4b}^2}$$

Total adjusted capital = stat surplus + $AVR + \frac{1}{2}$ policyholder dividend liability

Where:

 $C_0 = Asset Risk (affiliated amounts)$ $C_{1o} = All other asset risk$ $C_2 = Pricing (Insurance) risk$ $C_{3a} = Interest rate risk$ $C_{3b} = Health credit risk$ $C_{3o} = Market risk$ $C_{4a} = Business risk (non - health portion)$ $C_{4b} = Business risk (health portion)$ $C_{1cs} = Asset Risk (unaffiliated common stock)$

Cayman Prescribed Capital Requirements (PCR)

In Cayman, most companies elect to use internal capital models in place of the regulator's prescribed framework. US RBC with adjustments and modified GAAP are common elections.





Reserving requirements

Cayman has flexible accounting treatment with insurers having to adopt an internationally recognized accounting standard. GAAP or modified GAAP is typically used by insurers where liabilities are valued using a market consistent approach and assets are held at either book-value or market value.

Capital Requirements

The Cayman Islands Monetary Authority (CIMA) permits insurers to determine solvency capital requirements based on either the standard prescribed capital model or an approved internal capital model (ICM). Many Cayman insurers using ICM determine their PCR based on a factor of US RBC.

Bermuda Solvency Regulatory Requirements (BSCR)

The Bermuda Authority (BMA) oversees the regulation of insurers using a risk-based regulatory framework that focuses on financial strength and risk management practices



Reserving requirements

Similar to Solvency II, an economic balance sheet is used as the starting point where assets and liabilities are marked to market.

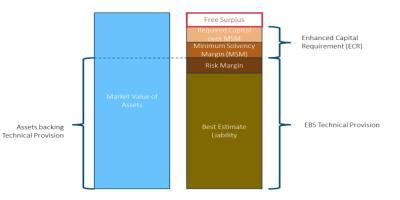
Insurance Liabilities are determined using best estimate assumptions plus a risk margin to estimate the current exit value.

Capital Requirements

The BSCR capital model is risk-based and is based on factors relating to an insurer's net exposure to the following risk modules:

Risk Categories and capital composition

- Market risk
- Insurance risk
- Credit risk
- Operational risk
- Capital Adjustments



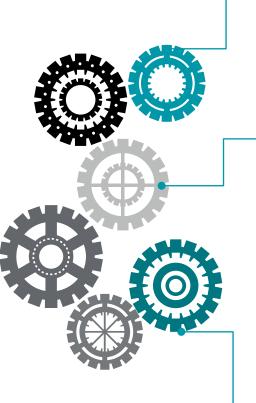
Regulatory Trends Brief Overview

Recent Bermuda Regulatory Changes

A summary of the recent changes in the Bermuda Regulatory Regime

Scenario Based Approach

- **Reapproval requirements** where there has been a material change to existing SBA models
- Fungibility of assets between collateral is not permitted without BMA approval Single notch rating downgrade of all assets
- Release of prescribed default and downgrades (D&D) rates and requirements governing the use of internal model and internal ratings as alternatives to the prescribed D&D assumptions
- Strengthened **asset modeling requirements** and restrictions including:
 - Restriction on the sale of 258E (restricted) assets assumed in SBA modeling
 - Requirement to explicitly model assets with optionality or behavioral components
 - An additional **spread cap** was introduced on 258E assets that receive approval for use in the SBA.
- An additional cost for lapses was introduced. Lapse cost looks at historical actual and expected lapse rates and considers the 1 standard deviation of lapse rate differences. The difference is then compared to the BSCR lapse up/down shock parameters to determine the proportion of the BSCR shock seen in the volatility of the lapse experience



BSCR and Risk Margin

'Other insurance risk' charge broken down into separate lapse and expense risk components

Updated **Risk margin** calculation for Insurance Groups to be on an unconsolidated basis. Second order impacts from transitioning to updated BSCR calculations.

Governance and Disclosures

Introduced risk management and SBA **governance requirements** relating to liquidity, affiliate investments, outsourcing, model documentation and data requirements.

Prudent person principle proposed for strengthening of investment specific governance and enhanced investment risk management framework.

Introduced additional annual public **disclosures** for long-term insurers covering assets, liabilities and asset liability management

Tax Regime

Bermuda enacted a 15% corporate income tax (CIT) effective for years beginning on or after January 1, 2025. CIT applies to Bermuda Constituent Entities (Bermuda CE) in a multinational entity (MNE) group with annual revenue of at least EUR 750m in at least two of the four preceding fiscal years.

Recent US and Cayman Regulatory Changes and Updates

A summary of the recent changes in the US Regulatory Regime relating to offshore reinsurance and regulatory updates relating to Cayman's insurance market

Asset adequacy analysis

In 2023, asset adequacy testing performed under Actuarial Guideline 53 required disclosure of:

- a capped reinvestment-sensitivity measure,
- collectability-risk reporting, and;
- the required supplementary information for assets and reinsurance.

Further discussions are ongoing on increasing the transparency of business that it is reinsured offshore for asset adequacy testing purposes.

Principles-based reserves

VM22 proposals relating to non-variable annuity products adoption delayed until 1/1/2026.

Offshore Reinsurance – Work in Progress

In 2023, the NAIC Macroprudential Working Group adopted a reinsurance comparison sheet as an optional disclosure form to increase the transparency of offshore reinsurance transactions

Cayman Qualified Jurisdiction

CIMA is working towards obtaining 'qualified jurisdiction' status from the US NAIC

Recent Developments

There has been growing discussion in the media over the use of offshore reinsurance

The Royal Gazette

US concern over growing offshore life reinsurance





Public consultation on draft Issues Paper on structural shifts in the life insurance sector

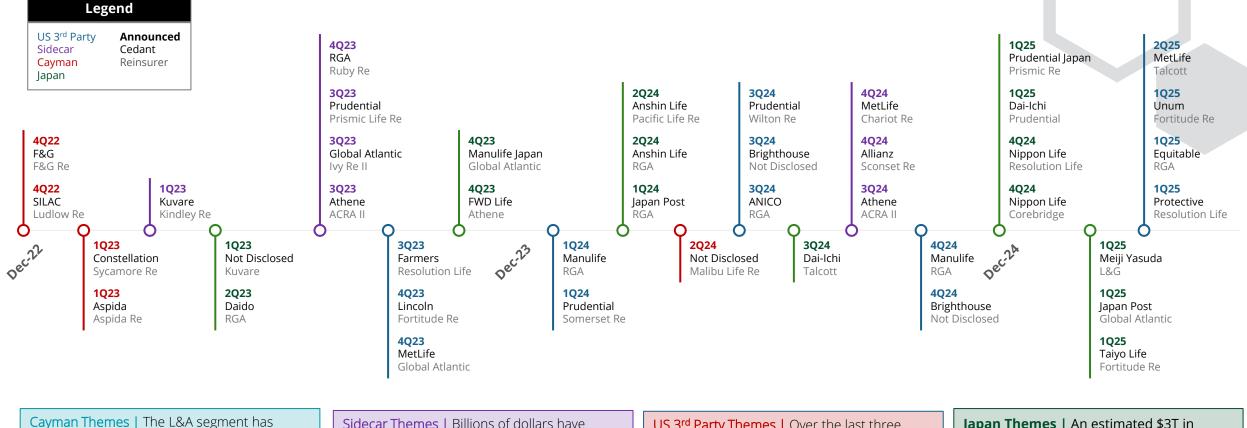






Market Activity

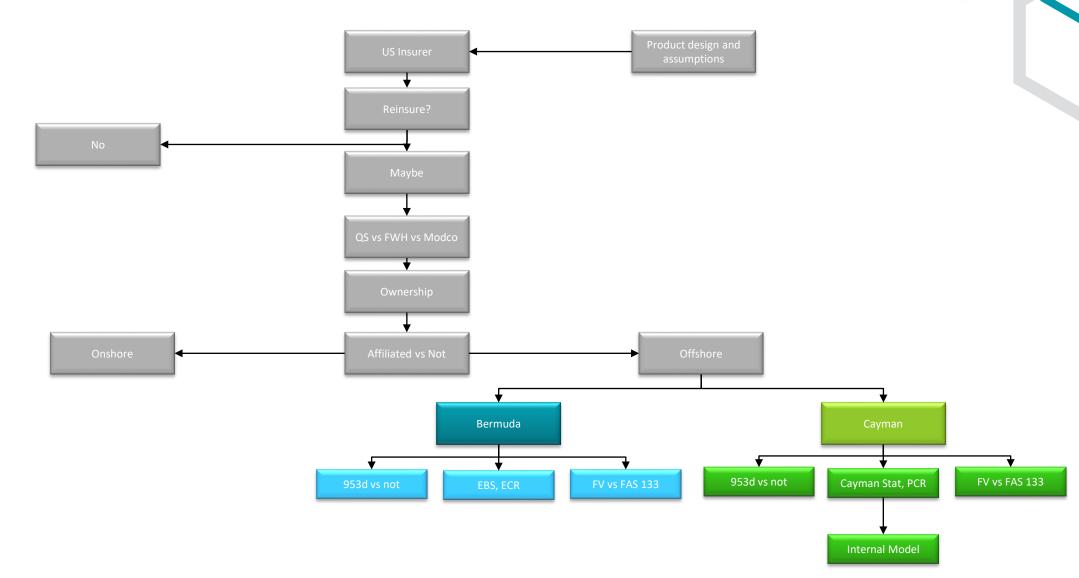
Recent developments in the US, Cayman and Bermuda Market



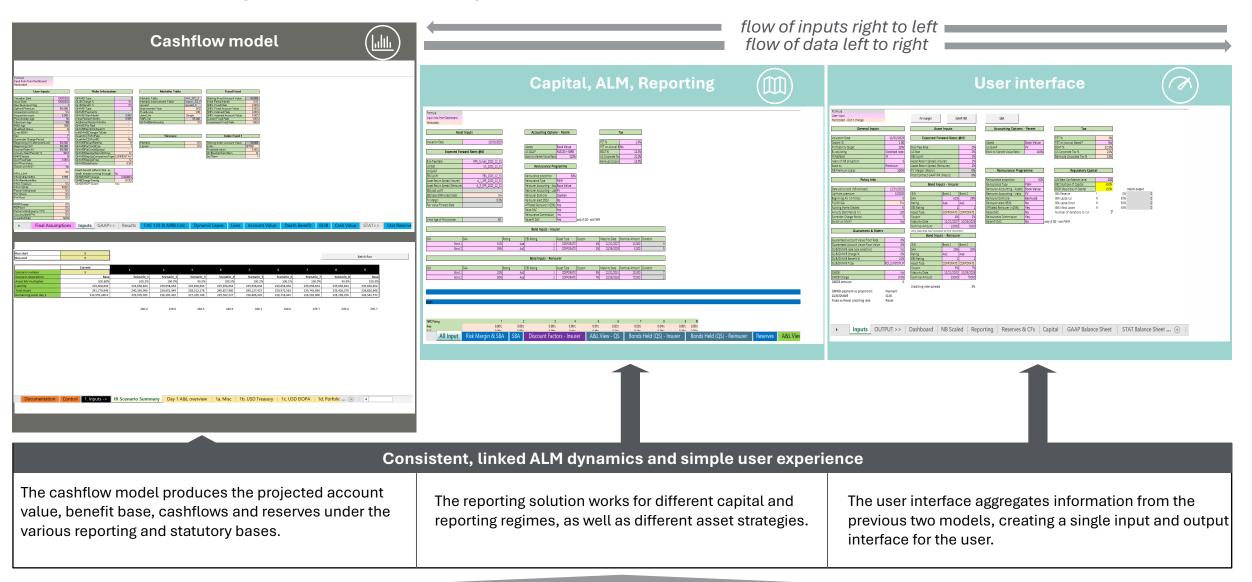
Cayman Themes | The L&A segment has reinsured approximately \$100B of reserves in the Cayman Islands, with over half of the activity backed by private equity: some stakeholders see risk in the lack of transparency, but the territory's attractiveness for U.S. business has it poised for continued growth Sidecar Themes | Billions of dollars have flooded the L&A segment as outside capital providers look to increase their exposure to (re)insurance growth, with carriers welcoming the investment, deploying funds to increase new business capacity as asset-intensive sales boom US 3rd Party Themes | Over the last three years, the transfer of tens of billions in inforce liabilities has become the norm: indicative of the L&A segment's transition to less-volatile, balance sheet-light business models as market demand for asset-intensive products climbs Japan Themes | An estimated \$3T in Japanese insurance liabilities are ripe for reinsurance at a time when US (re)insurers are starving for high quality blocks of business: deal activity is expected to increase ahead of new Japanese solvency regulation, effective in April 2025

Regulatory Comparison

Offshoring Decision Tree



Modules in cross-jurisdictional analysis



Integrated modelling solution

MYGA Results Dashboard

Overview



USA

Regulatory Basis Assets *Book Value* Liabilities *US Stat*



Cayman Parent setup remains unchanged

Capital Basis Capital framework US RBC Assets Book Value Liabilities US Stat

Regulatory Basis Assets Market Value Liabilities ASC825 Higher Yiel

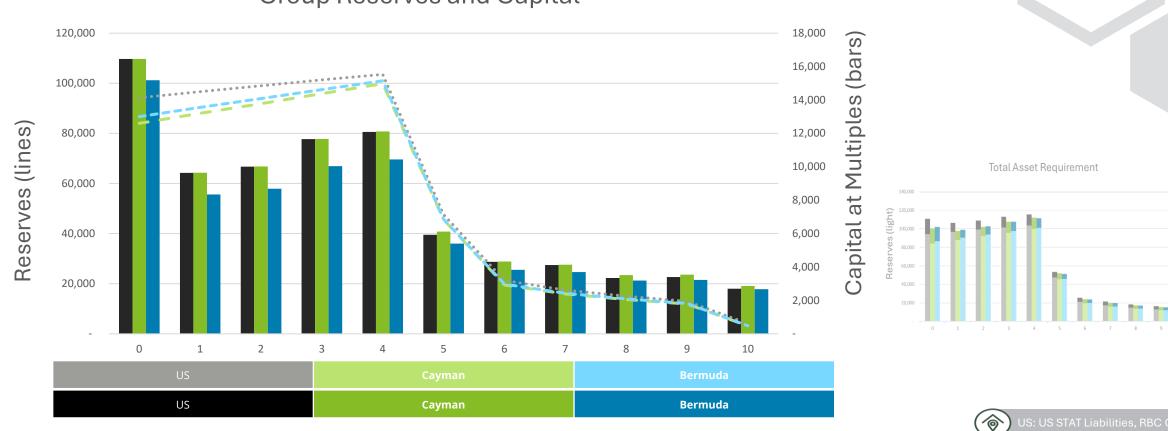
Bermuda

Parent setup remains unchanged

Regulatory Basis Capital framework BSCR Assets Market Value Liabilities EBS (SBA)



MYGA Results Dashboard Reserves and Capital

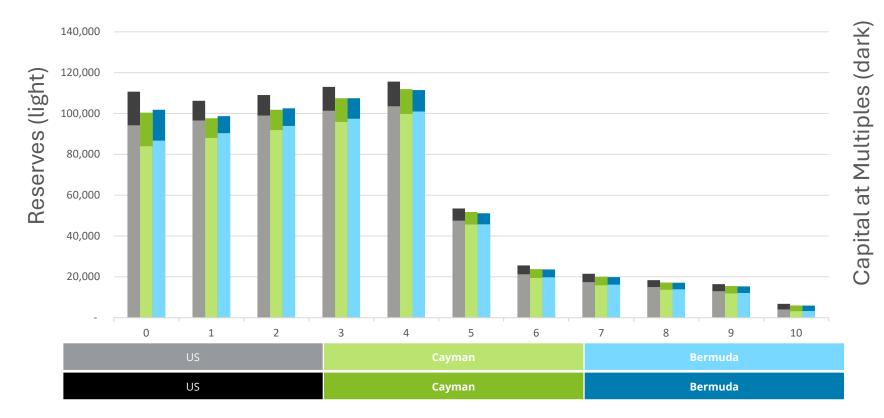


Group Reserves and Capital

Bermuda: EBS (SBA), BSCR Capital

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MYGA Results Dashboard Reserves and Capital

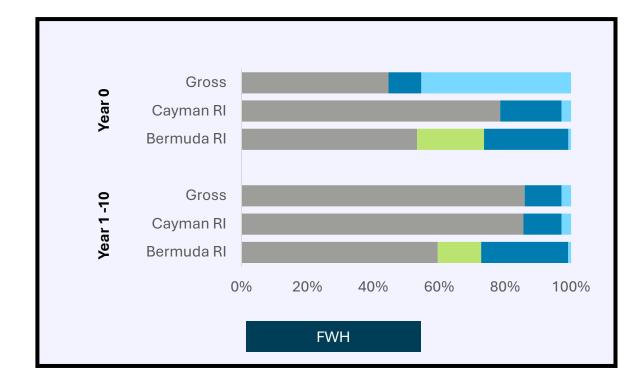


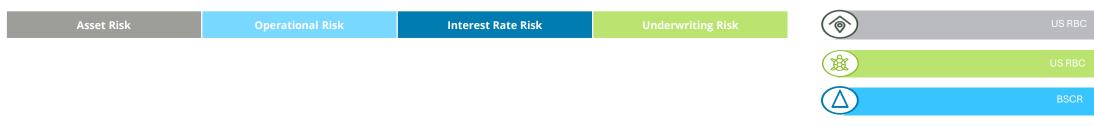
Total Asset Requirement



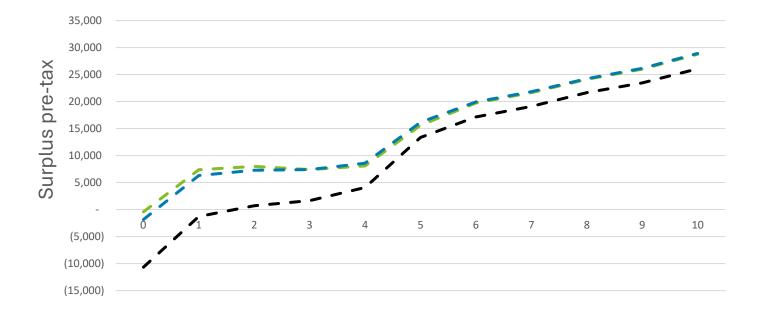
US: US STAT Liabilities, RBC Capital

MYGA Results Dashboard Capital Contributors





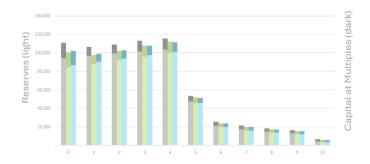
MYGA Results Dashboard Surplus (before tax) over first 10 years



US	Cayman	Bermuda
US	Cayman	Bermuda

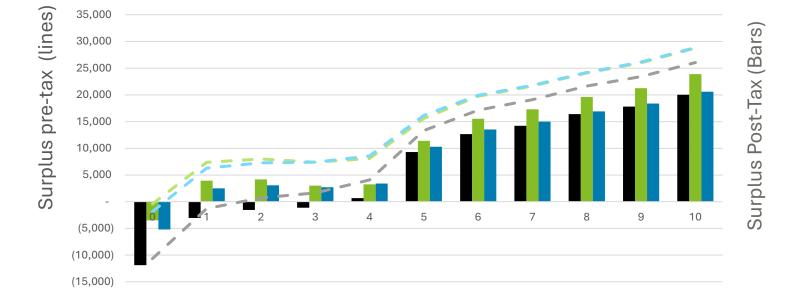


Total Asset Requirement





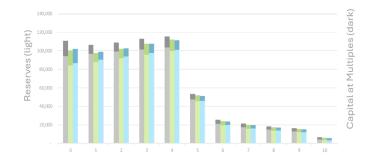
MYGA Results Dashboard Surplus over first 10 years

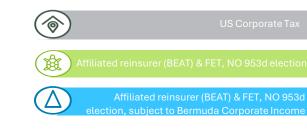


US	Cayman	Bermuda
US	Cayman	Bermuda

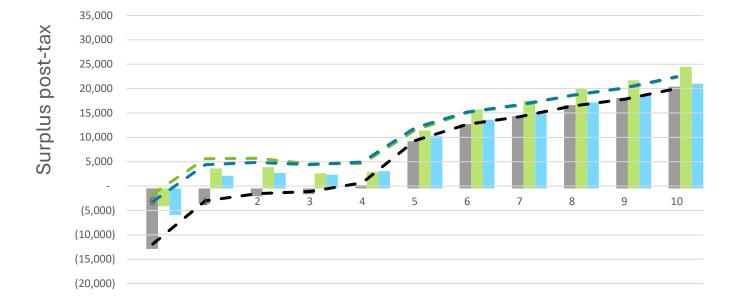


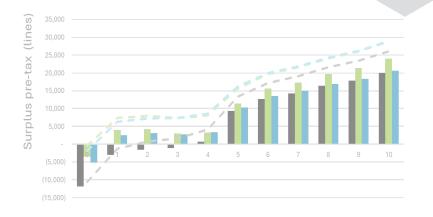
Total Asset Requirement



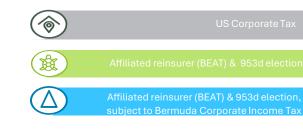


MYGA Results Dashboard Case 1: Reinsurer elects 953(d)

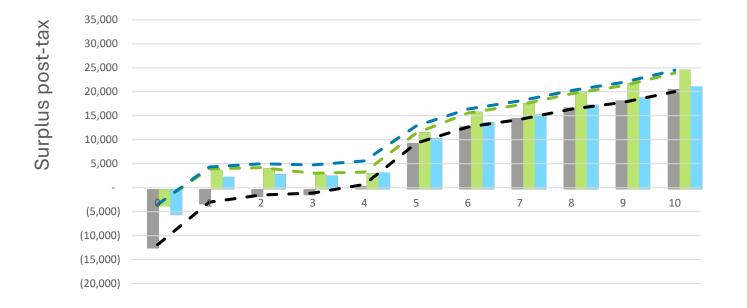




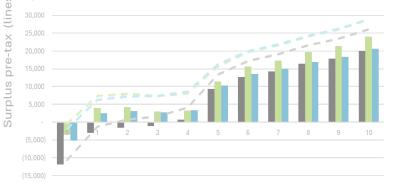
US	Cayman	Bermuda
US	Cayman	Bermuda



MYGA Results Dashboard Case 2: Prior lapse and expense calc for BSCR

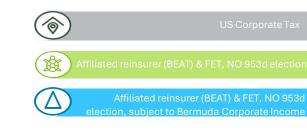




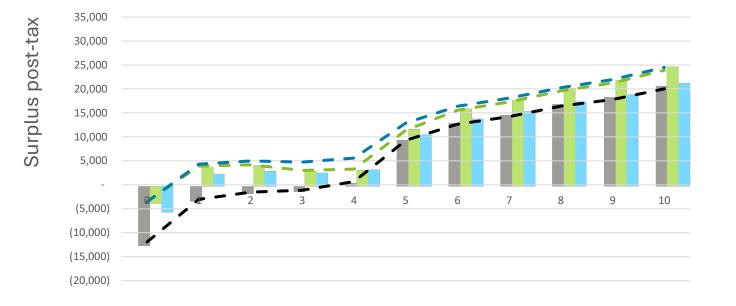


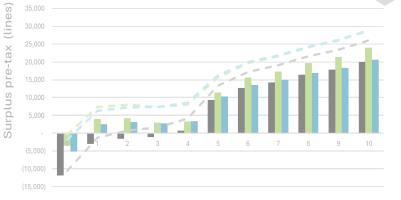
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US	Cayman	Bermuda
US	Cayman	Bermuda

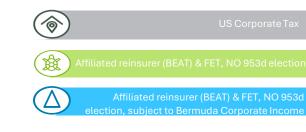


MYGA Results Dashboard Case 3: No BCIT





US	Cayman	Bermuda
US	Cayman	Bermuda



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FIA Results Dashboard

Overview



USA

Regulatory Basis Assets *Book Value* Liabilities *US Stat*



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Regulatory Basis Assets Market Value Liabilities ASC825 Higher Yiel

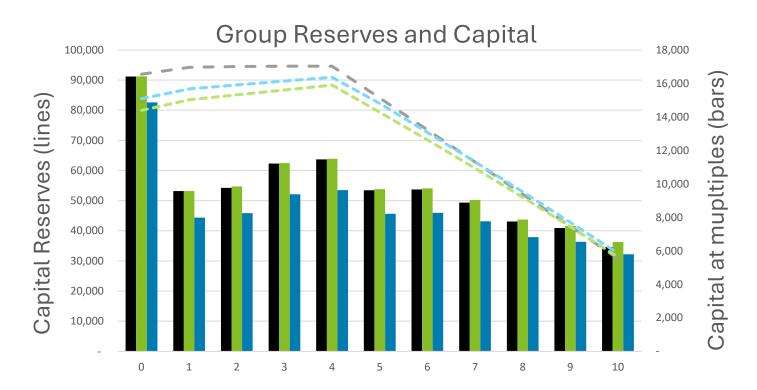
Bermuda

Parent setup remains unchanged

Regulatory Basis Capital framework BSCR Assets Market Value Liabilities EBS (SBA)



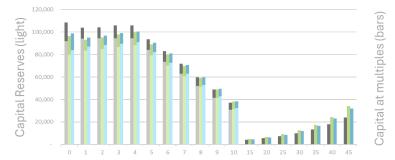
FIA Results Dashboard Reserves and Capital

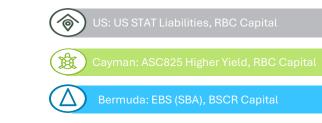


US	Cayman	Bermuda
US	Cayman	Bermuda



Total Asset Requirement





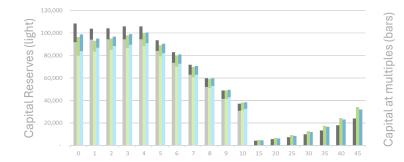
FIA Results Dashboard Surplus (before and after tax) over first 10 years

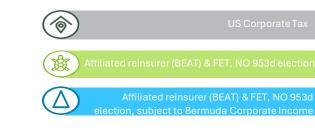


US	Cayman	Bermuda
US	Cayman	Bermuda



Total Asset Requirement





Closing Discussion

Questions?

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