

## Prophet US Library – risk modeling for US life insurers

### Understanding and managing risk

There is unprecedented demand for life insurers to understand the risks inherent in their portfolio of business. Products continue to grow in complexity, and regulators continue pushing towards more advanced model-based reserving approaches. Sound financial models that accurately reflect the features and risks of the insurance business have never been more important.

The Prophet US Library is central to SunGard's Prophet risk solution for life insurers in the US, and contains the actuarial code required for valuing and modeling all the main products and features common in the US marketplace.

The library is designed to be included in fully dynamic runs, allowing for a complete ALM model to be projected when used in conjunction with Prophet's Asset Liability Strategy Library, thereby reflecting the realistic interaction between assets and liabilities. Stochastic analysis is at the core of risk management for many insurance products, and the US library is designed to take advantage of Prophet's robust stochastic processing capabilities.

As with all Prophet libraries, the code and its structure are intuitive. Actuaries can quickly build, modify and extend their models using Prophet's own simple code, without the need for additional coding languages or skills. And because of its transparency, managers can readily understand what drives certain model results.

### Key features

#### Product Types

- Traditional Life
- Flexible Premium Universal Life
- Fixed Premium Universal Life
- Equity Indexed Universal Life
- Interest Sensitive Whole Life
- Flexible Premium Variable Universal Life
- Fixed Premium Variable Universal Life
- Equity Indexed Annuities
- Fixed or Variable Deferred Annuity
- Fixed or Variable Immediate Annuity

#### Experience Features

- All common mortality tables
- Withdrawals with any skewed incidence
- Taxation

#### General Product Features

- Regular or single premiums
- Level or Non-Level Premiums
- Level or Non-Level Death Benefits
- Single life, joint life, or last-survivor
- Guarantees including GMDB, GMAB, GMIB and GMWB/GLWB
- Participating or non-participating

#### Participating Features

- Factor based dividends
- Formula based dividends
- Cash dividend option
- Reduce Premium dividend option
- Accumulations dividend option
- Paid-Up Additions dividend option

### Valuation Features

- Statutory Reserves
- Deficiency Reserves
- All Standard Methods
- Reflect actuarial guidelines
- Tax Reserves
- U.S. GAAP Reserves
- FAS60
- FAS97
- FAS120
- FAS133
- FAS97LP

### Reinsurance Features

- Yearly Renewable Term (YRT) or Risk Premium Reinsurance
- Coinsurance
- Modified Coinsurance

### Goal Seeking Features

- Goal seeking to determine premium rates to achieve a predefined level of profitability

### Reporting Features

- Standard pricing measures
- Statutory and GAAP financial reports
- Discounted profits, at three rates of discount
- Analysis of future surplus / margins
- Dynamic Features
- Automatic output of the values which need to be passed from one dynamic loop to the next
- Any input assumption can be changed to make it calculate dynamically, by being read from a variable calculated in a higher level or ALM product in the previous dynamic loop

## About SunGard's Prophet solution

SunGard's Prophet solution is a leading enterprise-wide actuarial modeling system that helps insurance and financial services companies meet reporting responsibilities, improve risk management, and develop more profitable products faster. Prophet uses customizable actuarial libraries for all major product types, including regional variations. It provides the transparency, performance and control required by today's actuaries and risk managers through integrated financial modeling and data management capabilities. Prophet is used by more than 9,000 users at over 730 customer sites in more than 65 countries. [www.sungard.com/insurance/risk](http://www.sungard.com/insurance/risk)

## Enabling the adaptive enterprise

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