

UNDERWRITING AND CLAIMS

Managing Risk Is Managing for Profit

“To trust everybody is as disastrous as to distrust everybody.”

Hesiodus, ca 700BC, Greek epic poet

“Do not count your chickens before they stop breeding.”

Aesopues, 550BC, Thracian poet

“The golden rule is that there are no golden rules.”

G.B. Shaw, 1856-1950, Irish critic and poet

“Something unknown is doing we do not know what.”

Sir Arthur Eddington, 1882-1944, Comment on the Uncertainty Principle in quantum physics, 1927

“Risk comes from not knowing what you’re doing.”

Warren Buffett, 1930-, American investment entrepreneur

Insurance is about managing risk across multiple risk types. In fact, the insurance company’s “raison d’être” is to accept structured uncertainty and manage the associated risks with the goal of capitalizing on these risk differences to satisfy customers’ needs for protection and earn profits. The skill with which the insurance carrier balances alternative risk/reward strategies and claims service will determine its ability to attract and retain customers through policies that deliver value on shareholder returns.

However, in a market environment where competition, globalization, market volatility, and structural change are increasing, insurance companies need to manage their risks and service even better and with greater transparency. In addition, reinsurance pricing and statutory requirements link institutions across the world to present their standards for managing underwriting risks and expenses with adequate reserves for excess losses.

At one level, insurance companies need to assess credit and operational risk and use empirical transaction data to confirm that reserves are set correctly for underwriting losses. Reinsurance decisions are an example of market risk management. Today there is great debate around the global parameters that monitor market risk and support or maintain market stability. Given the various

risk parameters, the key is to identify where and how an insurance company proactively manages its risk indicators and associated assets—physical, financial, and human—to the mutual advantage of the risk carrier and the customer.

Enterprise risk management strategies for loss control are today a top concern for the board, senior executives, CFOs, and risk managers. However, while risk management is an accepted priority, it also represents an unenviable task that can become very political, depending upon the culture and aggregate claims experience. The challenge is implementing an integrated approach that can be ingrained across the insurance organization and in customer risk management practices. Without a coordinated risk management strategy, organizations will continue to struggle with unsatisfactory policy iterations before risk handling procedures and controls are efficiently aligned to stabilize productive relationships.

Insurance companies need to tackle three important barriers to ensure a successful, integrated risk management process:

Barrier 1: *Lack of consistent measurement methodology*

Underwriting risk measurement is complex, and no methodology will accurately capture the full picture for forecasting losses. Any risk evaluation process will, by definition, be imprecise, and financial institutions need to remain open to new “learnings” as economic, demographic, market, climatic, or other conditions change. Over time and through experience, the insurance company will gradually hone in on methods that better identify risk sharing patterns and adapt its loss control and pricing procedures accordingly.

However, the issue of risk measurement is further complicated by the lack of consistency across various institutions’ approaches for reporting losses and settling claims. This has a direct impact on financial risk and control decisions. For example, accounting methods may differ among insureds and reinsurers; a deductible amount that passes in one institution may be rejected in another. The more detailed and extensive the underlying loss control documentation, the more an insurance company can devise granular risk retention strategies based on informed insights into customer segmentation.

Another measurement challenge flows from the above example. By standardizing the risk rating evaluation process across the enterprise, insurance companies may lose their business flexibility and the ability of frontline “troops” to identify opportunities for future growth. The danger in underwriting standardization is reducing the options down to a common denominator that does not apply in every market sub-segment. As filed rates lock in underwriting decisions, more agile competitors can move in with finely tailored offerings for certain demographic groups or “micro-segments,” posing a serious competitive threat. In such situations, an overly rigid and standardized methodology in determining risk profiles will lead to slow update cycles and lost opportunities. As market opportunities continue to fragment due to intense competition, insurance companies must balance risk minimization with commercial relevance.

Barrier 2: *Hidden information gaps in the quantification of risk*

Three generic risk mitigation approaches exist:

1. Risks can be eliminated or avoided – e.g., hedging, asset-liability matching.
2. Risks can be transferred to other entities – e.g., ceded/assumed premium, treaty reinsurance, facultative reinsurance, or asset sales.
3. Risks can be actively managed.

To the extent that an institution has a good understanding of its portfolio risks and exposures—where, what, and how much—it can be proactive in its underwriting strategy. However, such transparency is not easy to come by without significant investment in systems, analytical tools, and sophisticated modeling techniques that can be applied at the customer relationship level. Frequently risk prevention measures are brought in after the event, in a reactive fashion. To what extent is the underwriting manager fully aware of the existing risks? Are business units still making decisions without coordinating and communicating exposures to the customer? These information gaps represent an unknown risk exposure, and the insurance company is not even in the position to decide how to mitigate these risks.

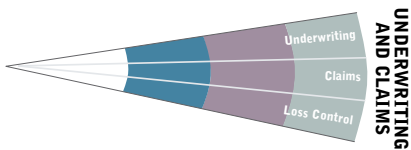
As coverage and service inter-relationships become more complex to address new market segments, the challenge is to enhance and keep up with the necessary risk information flow. Without serious management attention, investment, and effective execution, success is likely to remain elusive. This leads naturally to the next barrier:

Barrier 3: *Lack of integrated risk procedures that are “owned” by specific functional roles and embedded in the organization*

Active risk management is also about ensuring that the full organization identifies with and takes ownership of its own risk mitigation responsibilities. Underwriting cannot sit in its organizational silo and be disconnected from risk management decisions across the business. Pushing risk awareness and loss control procedures down into various functional roles will help establish a coordinated and proactive approach to risk management. In fact, different functional roles are directly associated with certain types of risk, including operational risk. The greater their ability to communicate risk concerns, identify risk patterns, and support the development of appropriate risk controls, the more effective risk management capabilities will be for profitable long-term customer relationships. An effective risk management process that is embedded in the organization and well executed will deliver higher returns and a competitive advantage.

Enterprise risk management combines many types of risk, such as credit risk, operational risk, interest rate risk, and compliance risk. For the purpose of simplicity, this discussion will focus on three decision areas:

- **Underwriting** → Financial protection from the possibility of a loss due to a defined hazard and risk event
- **Claims** → Payment for losses adjusted for policy limits and self-insurance deductibles
- **Loss Control** → The activities that reduce the frequency and severity of losses.



Underwriting

Underwriting is responsible for generating risk transfer contracts that specify loss events, limits, and exclusions for specific insurance coverages. Deductible levels are set to mark the boundaries between the customer’s self-insurance exposure and the carrier’s primary layer for coverage. Price is established by pooling losses for comparable exposures to determine the premium amounts that are adequate to maintain reserves for future loss events. The insurance carrier makes re-insurance underwriting decisions to cede premium to a reinsurer for excess loss amounts that would weaken balance sheet surplus. Reinsurance can be structured in treaties or defined on a facultative basis to cover specifically named risk events. When a carrier requires additional premium to balance actuarial exposure assumptions, risk can be assumed through reinsurance contracts. Internal control procedures coordination needs to be tested regularly with re-insurers to confirm operational agreements for the metrics calculations and payment processes referenced in treaties and facultative agreements.

GOALS	METRICS	DIMENSIONS	
Continued Ratio	Risks (#)	Sales Organization	Exclusions
Underwriting Ratio	Average Frequency	Organization Code	Exclusions
Credit Rating Index	Average Severity	Underwriter	Underwriting Layers
Risk Control Score Index	Credit Risk Score	Underwriter	Underwriting Layers
Renewals 1st Year	Business Risk Score	Agent - Broker	Reinsurance Type
Renewals Renewal	Market Risk Score	Agent - Broker	Reinsurance Type
	Operational Risk Score	Customer Occupation	Reinsurer
	Environmental Risk Score	Occupation	Reinsurer
	Exposures at Risk Count	Customer Credit Rating	Reinsurance Pool
	Policies (#)	Credit Rating	Reinsurer Solvency
	Deductible (\$)	Insurance Hazards	Reinsurer Solvency
	Excess (\$)	Hazards	Rating
	Exclusion (#)	Customer Risk Controls	Policy Year
	Endorsements (#)	Rating	Policy Year
	Riders (#)	Risk Control Rating	Accident Year
	Assessments (#)	Risk Control Rating	Accident Year
	Gross Written Premium	Insurance Risk Locations	Reinsurance Treaty Date
	Net Written Premium	Territories	Reinsurance Treaty Date
	Letter of Credit Amount (\$)	Geo Codes	Treaty Cancel Date
	Loss Events (#)	Risk Events	Contract - Treaty
	Approved Claims (\$)	Risk Types	Facultative Re Contract
	EBAR (\$)	Risk Events	Date
	Reinsurance Attachment Point (\$)	Risk Frequency	Facultative Contract
	Layer Max Gross (\$)	Frequency	Date
	Layer Max Exposure (\$)	Risk Severity	Facultative Contract
	Underlying Coverage Limit (\$)	Severity	
	LAE Max Expense (\$)	Product - Coverage	
	Funds Withheld Amount on File (\$)	Product Line	
	Funds Withheld Amount Ceded (\$)	Coverage	

FUNCTION	DECISION ROLES	PRIMARY WORK	CONTRIBUTORY	STATUS
Underwriting	Executive	••		
	Managers	••		
Finance	Executive	•		•
	Professionals	•		
Audit	Executive	•		•
	Managers	•		
Regulatory/Legal and Compliance	Executive		•	•
	Professionals		•	
Marketing	Executive		•	
	Analysts		•	
Loss Control	Analysts		•	
Claims and Sales	Executive		•	
	Managers		•	
Actuarial	Executive			•
	Professionals			
General Management	Executive			•
	Professionals			

Claims

Claims is the public face of the insurance company, responsible for processing and settling claims against underwriting contracts. It is the operational center for managing loss expenses and generating input for setting case reserves. Claims reporting controls are the backbone of detecting fraud and assuring there is accurate information in place to adjudicate loss payment decisions. The claims organization must coordinate a network of relationships with services suppliers to assure rehabilitation work is performed in a timely and professional manner to fulfill contractual standards. Loss adjustment expenses are classified by service provider types to develop benchmark metrics that can be used reliably to plan and control claims fulfillment activities. Cases in litigation are aged to reconcile settlement value and timing estimates with the insurance portfolio's line of business reserves.

GOALS	METRICS	DIMENSIONS	
Loss Ratio	Claim Cases (A)	Product-Coverage	Claim Service Providers
Loss Adjustment Expense (\$%)	Claims Pending (A\$)	Coverage	Claim Service Types
Case Reserve (\$%)	Investigation Time	Exclusions	Claim Service Providers
IBNR (\$%)	Settlement Time	Exclusions	Time to Settlement
Reinsurance Claims Payment Gaps (A\$)	Litigation Activity (A\$)	Claims	Time to Settlement
	Repair / Rehabilitation Activities (A\$)	Claim Types	Claim Status
	Claims Paid #	Claim Case Number	Claim Activity States
	Secured Claims (E)	Claim Location	Reinsurance Type
	Claims Paid (%)	Claim Geo code	Reinsurance Type
	Subrogation (\$)	Adjudicator	Reinsurer
		Claim Adjudicator	Reinsurer Pool
		Claims Documentation	Policy Year
		Documentation Types	Policy Year
		Documentation	Accident Year
		Time to Investigation	Accident Year
		Time to Investigation	Accident Year
		Litigation	
		Litigation Types	
		Legal Cases	

FUNCTION	DECISION ROLES	PRIMARY WORK	CONTRIBUTORY	STATUS
Claims	Executives	*		
	Managers	*		
	Professionals	*		
Loss Control	Executives	*		
	Managers	*		
	Professionals	*		
Regulatory/Legal	Executives			*
	Analysts		*	
Actuarial	Executives		*	
	Analysts		*	
Underwriting	Executives		*	
	Managers		*	
	Professionals		*	
Sales	Executives		*	
	Managers		*	
	Professionals		*	
Finance	Executives			*
	Managers		*	
	Analysts		*	
Compliance	Executives			*
General Management	Executives			*

Loss Control

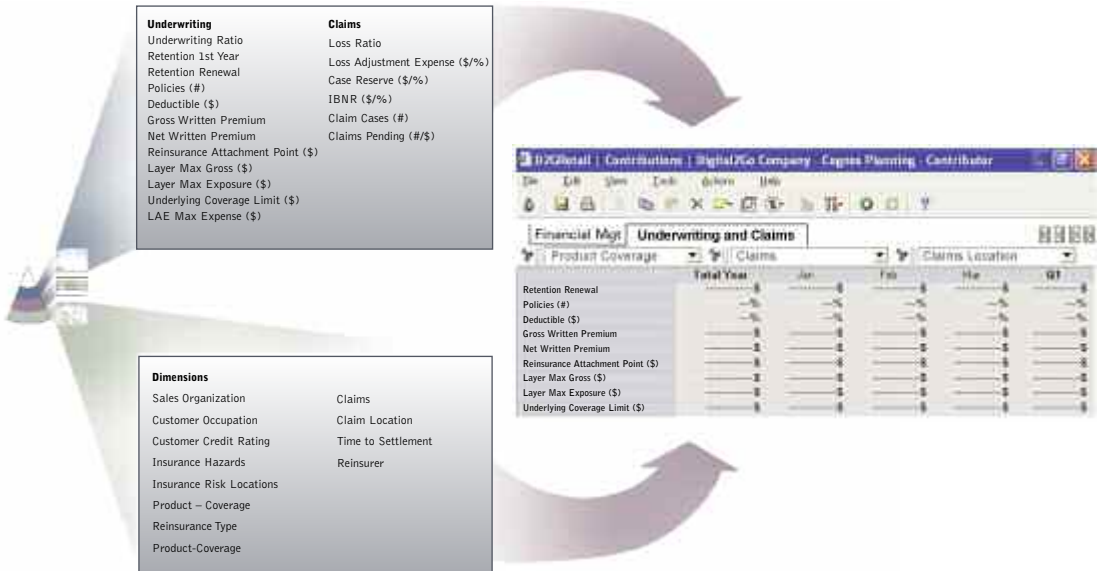
Effective loss control is the key to managing loss ratios that support profitable results and reinforce customer retention. Legal expense ratio analysis is the most revealing indicator for assessing how well specific lines of business have deployed detective and preventative controls that lead to prompt and fair claims settlement cycles. The best success is achieved when the insured has an internal controls process in place that maintains the documentation needed for litigation if responsibility for a loss event has to be resolved in the legal system.

The key issue is not simply to identify risk exposures, but to define the cycles and processes where potential losses are monitored to develop approaches or strategies to address them. One common valuation methodology is “value at risk,” which looks at the likelihood of an asset’s value decreasing over a period of time. Others include shortfall probability, downside risk (semivariance), and volatility. Insurance executives need to be aware of the inherent strengths, weaknesses, and sensitivities associated with each method.

Whatever the method, managers need to have access to better information that equips them to identify and mitigate risk. Only by clearly understanding the various business streams and positions can managers implement an effective risk management strategy.

GOALS	METRICS	DIMENSIONS		
Risk Controls Assessment Score	Risk Events (#)	Insured	Regulatory Statute	
Contingency Readiness Index	Average Frequency	Insured Name	Regulation Type	
	Average Severity	Agent / Broker	Reg. Standard	
	Potential Maximum Loss (\$)	Agent/Broker Name	Control Activities Process	
	Expected Loss (\$)	Product-Coverage Coverage	Control Activities	
	Expected Net Loss (\$)	Insurance Risk Location Geo Code	Documentation Documentation	
	Risk Controls (#)	Risk Events	Contingency Tests Test Types	
	Contingency Plans (#)	Risk Types	Contingency Tests	
	Controls Tests (#)	Risk Events		
	Controls Test Scores	Risk Frequency	Insurance Services	
	Insurance Service Providers (#)	Frequency	Insurance Service Type	
	Legal Cases (#)	Risk-Severity Severity	Insurance Service Provider	
	Repair - Retain Cases (#)		Insurance Service Rep Service Rep	

FUNCTION	DECISION ROLES	PRIMARY WORK	CONTRIBUTORY	STATUS
Loss Control	Executives	*		
	Managers	*		
	Professionals	*		
Risk Management	Executives	*		
	Managers	*		
	Professionals	*		
Claims	Executives	*		
	Managers	*		
	Professionals	*		
Underwriting	Executives		*	
	Managers		*	
	Analysts		*	
	Professionals		*	
Customer Service	Executives		*	
	Analysts		*	
Compliance	Executives		*	
	Analysts		*	
IT Systems	Executives		*	*
	Analysts		*	
Audit	Executives			*
Finance	Executives			*
Regulatory/Legal	Executives			*
Operations/Production	Executives			*
General Management	Executives			*



The Credit Risk and Operations decision areas illustrate how the Risk Management function in insurance companies can monitor risk exposure, allocate resources and set plans for future requirements to manage multiple risk types that cascade across the business.



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