Actuarial Issues for Captive Insurance Companies

Ratemaking, Reserving and Beyond



What is a captive?

- Insurance subsidiary of a non-insurance parent
- Exists to serve the risk management needs of the parent and/or to support the core business goals of the parent, rather than for its own profitability
- Risk financing vehicle for retaining corporate insurance risks

Captives today

- Approximately 5,000 captives world wide
- Significant growth occurred in 2002 2003 as a result of the post-9/11 hard market
- Growth has continued at a slower rate in recent years due to the soft market

What we're covering What we're covering Presenters ■ Susan R Pino, Actuarial, Risk and Analytics, Deloitte Consulting Captive Refresher ■ Captive Refresher Paul Smith, Insurance Risk Management Advisor, Ernst & Young Types of Risks Covered Types of Risks Covered Actuarial Involvement and Support of Captives Actuarial Involvement and Support of Captives Case Studies Case Studies

What is a typical captive?

- Risk retention device
- Vehicle for achieving an organization's insurance, finance and management goals
- Subsidiary owned by a parent organization (results are normally consolidated up to parent)
- Owned by shareholders whose primary business is not insurance
- Insures "related risks" risks of its shareholders
- May insure "unrelated risks" (i.e., third-party business)
- Can operate as a direct insurer or a reinsurer

Captives offer opportunities for financing:

- Property/Casualty retentions
- Medical malpractice and hospital professional liability
- Products/completed operations liability
- Other general liability
- Workers' compensation and automobile liability, as applicable
- Loss reserves maintained within organization's deductibles, on a "claims-made" basis
- EITF 03-08 occurrence-based reserves maintained for unasserted claims
- Possible benefits under Terrorism Risk and Insurance Act (TRIA)
- Reinsurance. Deductible Reimbursement

Types of captives

- Single parent captives Insure the risks of the owner or its subsidiaries. Can also cover the risks of unrelated entities.
- Group/Association captives Owned by multiple unrelated entities and designed to insure the risks of the different entities. An association captive insures risks of entities in same or similar industries. Group captives can also insure organizations other than
- Agency captives Owned by insurance broker to insure client risks.
 Most established as rent-a-captives.
- Rent-a-captive Licensed offshore insurer formed by their owners to insure the risks of other organizations for a fee.

Types of captives

- Protected cell companies Used with rent-a-captives, they cover the risks of unrelated third parties. They allow a captive to segregate the accounts of each individual insured so that each account is protected from the liabilities of other accounts within the captive.
- Risk retention groups Special form of group captive limited to liability coverages for owner/insured.

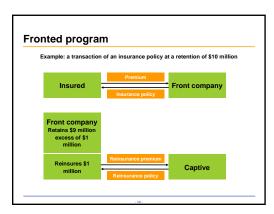
Common reasons for a captive

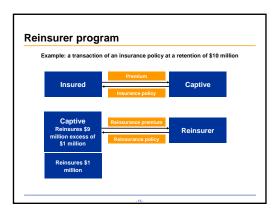
- Insurance coverage availability problems
- Pricing/cost issues
- Flexibility
- Tax advantages (Federal, International and State)
- Access to reinsurance markets
- Stability of costs

Common reasons for a captive

- Access to terrorism programs
- Strengthen business relationships with stakeholders (third party business)
- Coordinate programs
- Across countries
- Across subsidiaries
- Participate as reinsurer where utilizing local company is mandated
- Write directly into European Union (EU) with either EU-based captive or cell
- Write US and international employee benefits
- Estate planning for privately-held companies

Reasons against captive formation Costs both internal and external Capitalization and cash commitment Inadequate loss reserves and potential losses Increased cost of other insurance not included in the captive





What is insurance?

- Helvering v. LeGierse Insurance Requires:
- Risk Shifting
- Risk Distribution
- Commonly accepted notions of insurance
- IRS View: Revenue Ruling 77-316 Neither Can be Accomplished in one "Economic Family."
- View of Courts: Never really accepted IRS Economic Family Argument. Three Prong Test Established:
- Is there an insurance risk?
- Was there risk shifting and risk distribution?
- Was the arrangement viewed as "insurance" in the commonly accepted sense?

Premium deductibility

- The key factors IRS will consider include:
- Business Purpose of Transaction
- Ownership Structure
- Capitalization of Subsidiary
- Compliance with Commercial and Legal Norms of Insurance
- Diversification of both Insureds and the Risks they Insure
- Investment policy

Tax benefits

- Federal Tax benefits:
- Acceleration of tax deduction: Captive takes tax deduction when loss reserve is set, rather than when loss is actually paid.
- Tax efficiency of insurance treatment vs. self-insured reserve
- Potential source of cash that monetizes deferred tax assets
- State and local tax benefits:
- A wide variety of state tax planning opportunities exist that may be implemented in tandem with federal tax planning or as stand-alone projects
- Base shift: May reduce applicable state corporate income taxes due to movement
 of reserves to captive, since captives frequently are not subject to state corporate
 income tax
- Exclusion of captive from many state unitary or consolidated filings

What we're covering

- Captive Refresher
- Types of Risks Covered
- Actuarial Involvement and Support of Captives
- Case Studies

9-

Types of risks covered in captives?

- Professional Liability
- Floressional Liability
- Errors & Omissions Liability (Cost of corrections)
- General Liability
- Cyber Liability
- Workers' Compensation
- Directors & Officers Liability
- Property and Business Interruption
- Automobile Liability

- Employee Benefits
- Warranty Programs
- Credit Risk
- Franchisee Insurance Programs
- Customer Insurance Programs (marine cargo, transit, product replacement, etc.)

Workers' compensation

Risk Management Issues

- Risk Management Issues
- Proof of coverage required
- Fronted program/Deductible reimbursement
- Typical retentions: \$250K-1M
- Limits: Statutory

Actuarial Issues

- Higher frequency generally
 lower coverity
- Working layer analysis possible
- Good benchmarking data
- Potential clash exposure
- Long tailed
- Employer's liability
- Reforms
- State specific issues

Property Risk Management Issues **Actuarial Issues** Not in most captives pre-9/11 Low frequency Typical deductibles \$1M-5M Little to no loss experience Limits: Very large High severity/catastrophe potential Write whole structure in captive, Short tail reinsure out all but retention Pricing and reinsurance considerations Capital considerations

Product recall liability Risk Management Issues Expensive coverage Claims settlement issues Customize policy Fund for event Actuarial Issues Short tailed Low frequency Little to no loss experience Catastrophe potential Appropriate exposure base

Employee benefits Risk Management Issues Large source of third party business Requires DOL approval Fronted Benefit improvement for the employee is required Actuarial Issues Separate or combined SAO Annual premiums versus lump sum (retiree medical) Consideration of who benefits from the insurance

What we're covering Captive Refresher Types of Risks Covered Actuarial Involvement and Support of

Captives Case Studies

Actuaries and captives

- Captive Feasibility Studies
- Projected payment streams
- Confidence levels
- Initial capital needs Initial pricing/premium
- Pro formas
- Retention analyses
- Analysis of cash build up available for loan backs
- Analysis of Risk Transfer
- On-Going Reserving
- Financial statements
- Ranges/confidence level analysis
- On-going Pricing/Ratemaking
- Funding
- Confidence level analysis
- First Party Policies/Premium

Ratemaking and premiums

- "Arms Length":
- Driven by market rates
- Based on loss expectation
- Risk Transfer - Helps substantiate treatment as
- insurance and deduction of reserves
- Issues Encountered:
- Limited data
- Low frequency, high severity coverages (TRIA)
 New coverages television

- Required Risk Margin/
- Exposure Estimates
- Expenses and Frictional Costs (fixed and variable)
- Reinsurance versus Deductible

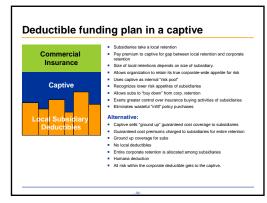
Reimbursement

Reserving and financial statement support

- Deductibility of Reserves
- Allowed(!)
- Application of IRS discount factor
- Controls
- Reserving and Capital Requirements
- Third Party Business
- Fronting

What we're covering

- Captive Refresher
- Types of Risks Covered
- Actuarial Involvement and Support of Captives
- Case Studies



-		
_		
_		
_		
_		
_		
 _		

