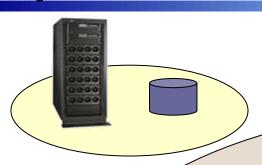
## Rules Of Engagement – Capturing Your Business Expertise

Smart Work Solutions Need To Build On Existing

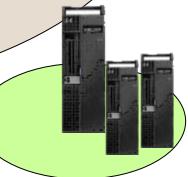
**Systems** 



#### **Smart Work Solutions**

- 1. Build on a Strong Foundation
- 2. Automate Business Processes
- 3. Capture Business Expertise
- 4. Connect Everything with an Intelligent Bus
- 5. React to Business Events in Real Time





## Service Oriented Finance Needs Immediate Changes

We need to make an immediate policy change!



**Business Expert** 

With rules you can make changes quickly without re-programming or re-deploying your process.

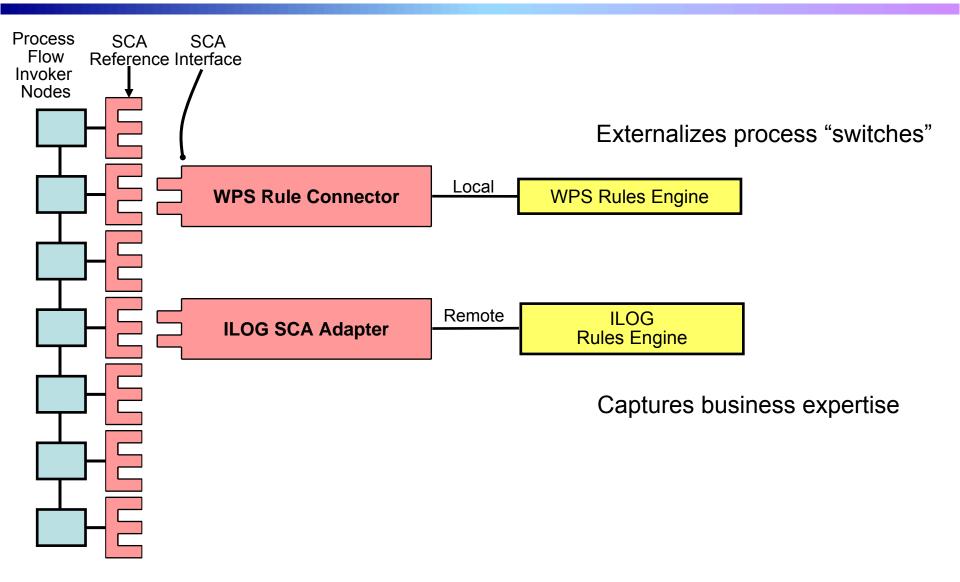


**IBM** 

### Rules Can Be Used For Two Purposes

- Add flexibility by externalizing "switches" in your process
  - Simple changes to rules cause changes in process behavior
    - Examples: Threshold values, conditional parameters, and calculations
  - Rules can be changed immediately while the process is running, without re-programming or re-deploying the process
  - WebSphere Process Server provides this support
- Capture expert knowledge to automate what would otherwise be a manual decision
  - Typically involves the knowledge of many business experts
  - Typically requires the definition of thousands of rules
  - Approximates artificial intelligence to make automatic decisions
  - ▶ ILOG JRules provides this support

## WebSphere's Service Component Architecture Enables Both Kinds Of Rules

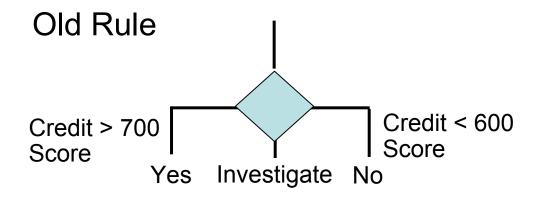


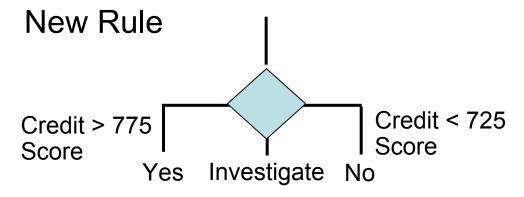
### Demo: WebSphere Process Server Rules

We need the flexibility to tighten credit criteria.



**Business Expert** 





# Service Oriented Finance Also Needs To Capture Business Expertise

We need to capture our business expertise in order to price life insurance policies quickly and effectively.

Those simple rules are great, but they can't handle this requirement.

With ILOG JRules your teams of experts can create and manage thousands of rules.



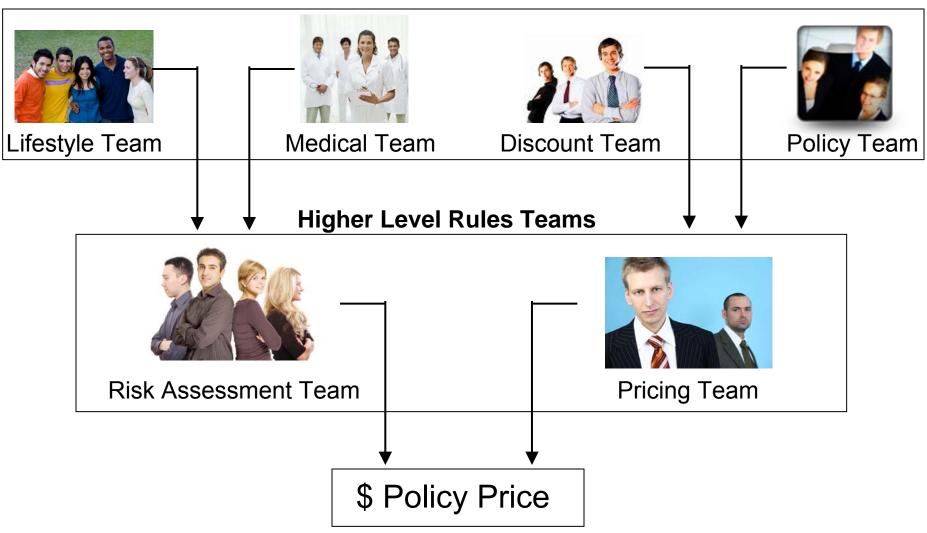
**Business Expert** 



**IBM** 

### Whose Expertise Do We Need To Capture?

#### **Sub-Level Rules Teams**



## What Rule Sets Do We Need To Calculate The Price Of A Life Insurance Policy?

- Profession
- Hobbies
- Driving record
- Geography

- Medical history
- Family history
- Health status form
- Nurse Visit

- Regular checkups
- Non-smoker
- •Gym membership
- Multiple policies

- Term amount
- Variable or flat rate
- Health rating
- Age

Lifestyle Team



Medical Team

**Discount Team** 

Policy Team



- Medical condition
- •Lifestyle
- Actuarial tables
- •Rate lock-in period

Risk Assessment Team

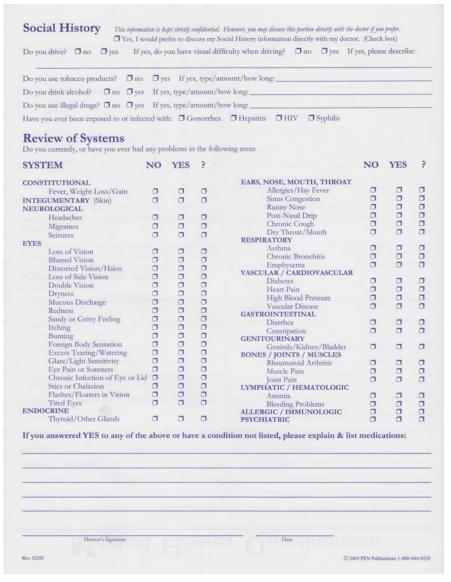


\$ Policy Price

- Revenue targets
- Competition
- Market share
- Geography

**Pricing Team** 

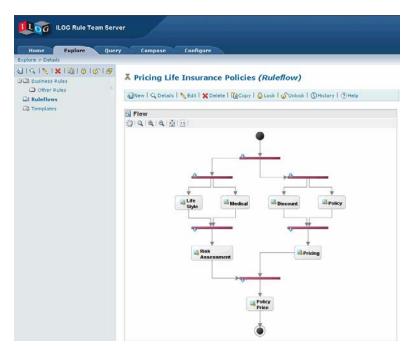
# **Example Of The Complexity Of The Medical Team's Rules Sets**



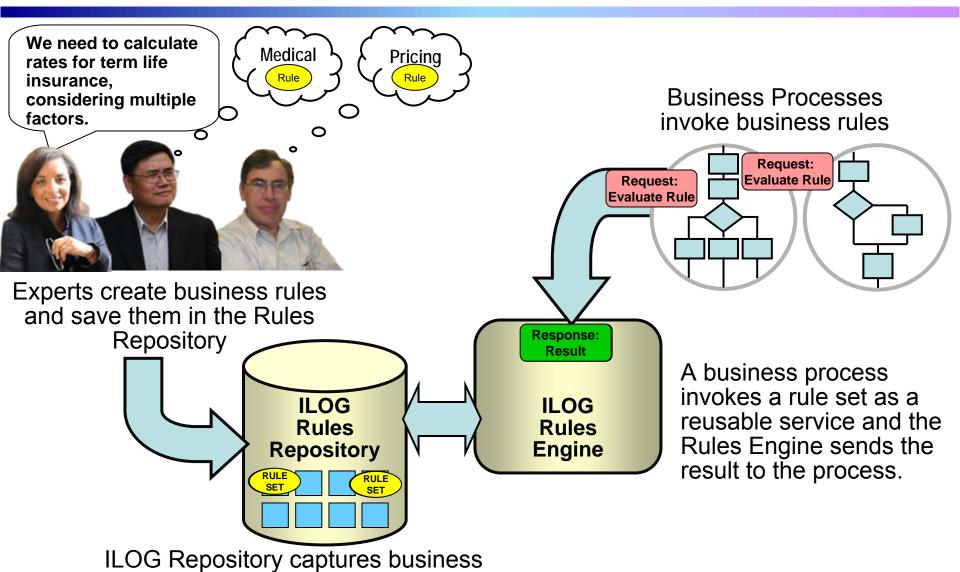
- 1. Over 350 medical conditions to track
- 2. Invoke rules for certain combinations of conditions
- 3. Invoke rules for medical patterns
- 4. Statistically track all the latest mortality data for certain medical conditions
- 5. Daily updates with new medical statistics

# Demo: ILOG JRules Orchestrates Rule Dependencies

- Each team has a rule project
- ILOG JRules orchestrates rule dependencies across projects and teams
- The orchestration specifies the order in which rule sets are evaluated



## **ILOG Captures Expertise As Business Rules For Re-Use In Business Processes**



rules in rule sets

# ILOG JRules Is A Business Rules Management System

#### Lifecycle management

- Create, modify, test, and deploy rules
- Searching, action, and reporting

#### Governance

- Project access and permission control
- Versioning, baseline, and history comparison
- Quality assurance analysis

Oracle, Microsoft, and JBoss can't do this!

## ILOG JRules Allows The Team To Create, Modify, Test, And Deploy Business Rules

All I have to do is capture my expertise in a business rule!

I'll set up the environment and define your rule interfaces



**Business Expert** 



Developer



I'll test your rules

to ensure that

say they should

Rule Tester

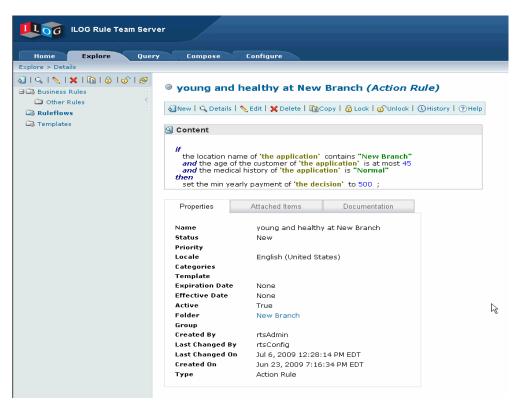


Administrator

I'll make sure that your rules don't conflict with others. then deploy them

### Demo: Creating A Business Rule With ILOG

ILOG JRules uses a natural language approach, so a developer is not necessary to create a rule



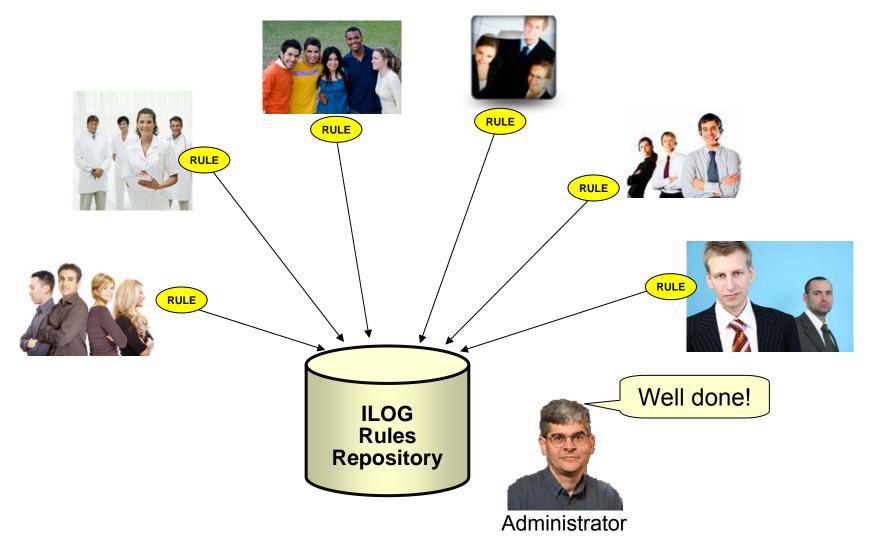
# ILOG JRules Makes It Easy To Search, Act, And Report On Large Rule Sets

- Based on their role and permissions, team members can work with rules throughout their lifecycle:
  - Create custom queries to easily find rules among thousands in the repository
  - Create, copy, edit, delete, or move rules using a browserbased user interface
  - ► Generate reports on rules that allow business experts and architects see at a glance rule logic, interfaces, and projects

## What Is The Importance Of Rule Governance?

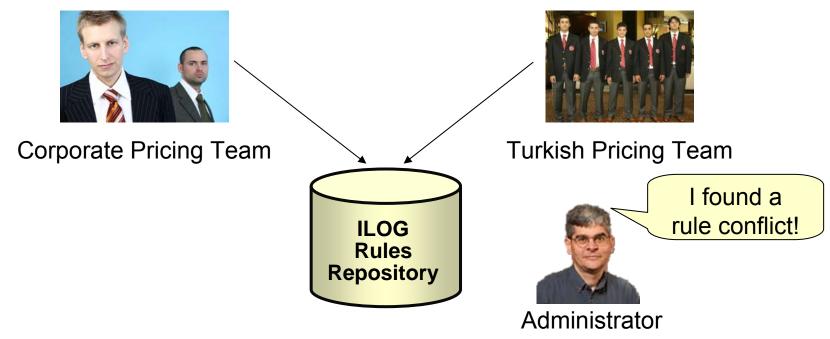
- Project access and permission control
  - Teams have access only to their projects
  - Only specified roles can change rules
- Versioning, baseline, and history comparison
  - Experts can create versions of rules
  - Experts control which versions are in force
- Quality Assurance analysis
  - Ensure that rules created by different teams do not conflict with each other

# **Governance Allows Teams To Function Smoothly**



## Demo: ILOG JRules Provides Role Separation And Checks To Ensure Rule Quality

- Teams create pricing rules in a single repository
- The administrator runs a quality assurance check to detect the conflict
- The administrator generates a rule report to show the teams where the conflict lies





# Travelers Insurance Captured Business Expertise With ILOG JRules

#### The Challenge

- 83% of processes for small commercial policies required intervention by agents to evaluate data and make decisions
- Long processing times due to manual intervention caused partners to request fewer quotes

#### With ILOG JRules

- Fewer policies need agent intervention because rules allow process decision steps to be automated
- Number of quotes per agent increased 26% due to automated processes
- Currently have 40,000 rules, and are planning to handle 200,000 rules
- Currently averaging 3,000 new / changed rules per month

### **Summary**

- Business rules capture business expertise to automate business process steps
  - ▶ Make the business as strong as your smartest experts
- ILOG JRules can manage thousands of rules developed by teams of business experts
- Business rules can add flexibility by allowing business values to change at runtime, without re-developing and redeploying the processes in which they are used
- WebSphere Process Server's built-in capability allows developers to create rules that become reusable service components